

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P458319

Luminaire Tested: **GLAN-SA9D-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58133 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

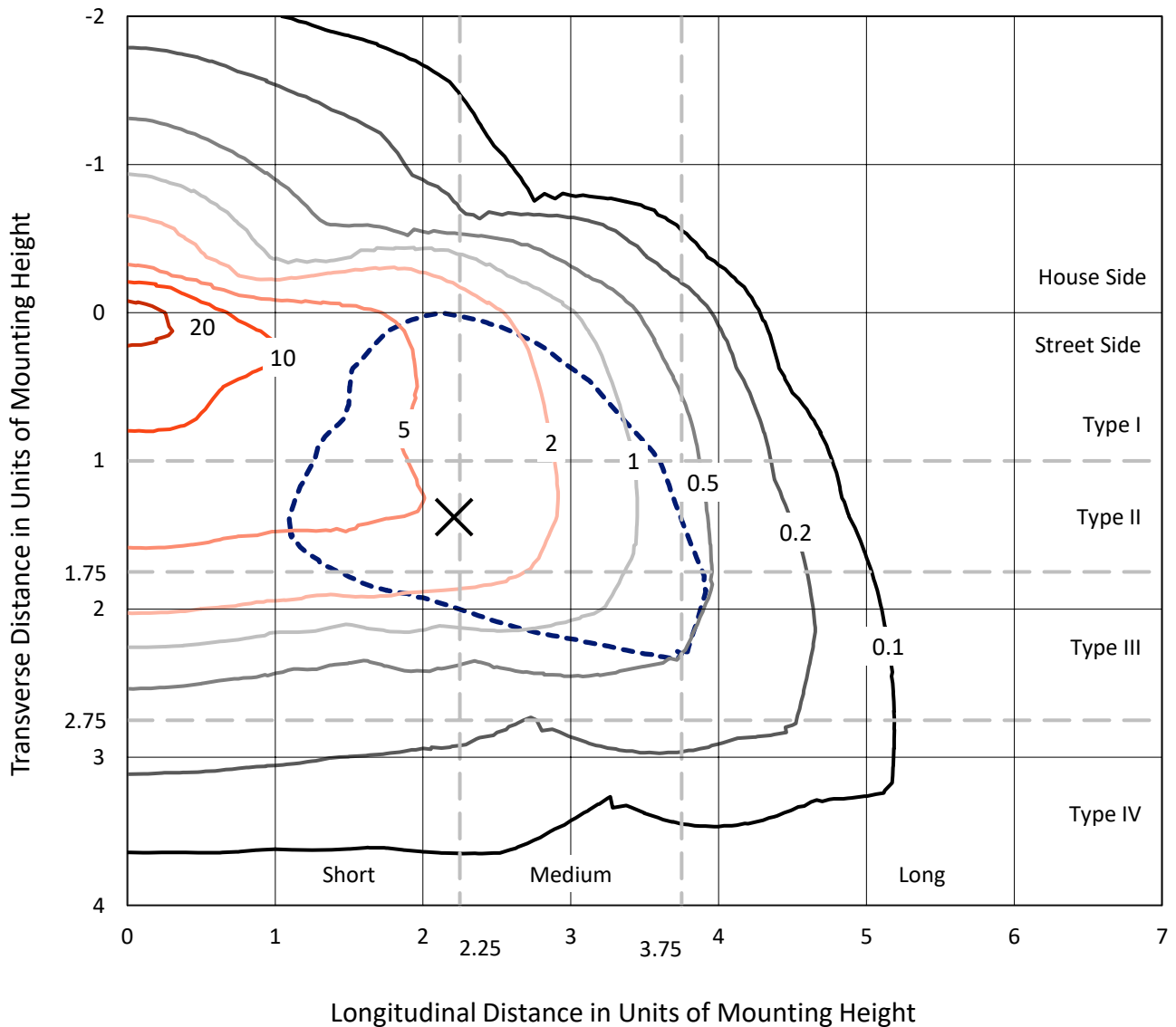
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

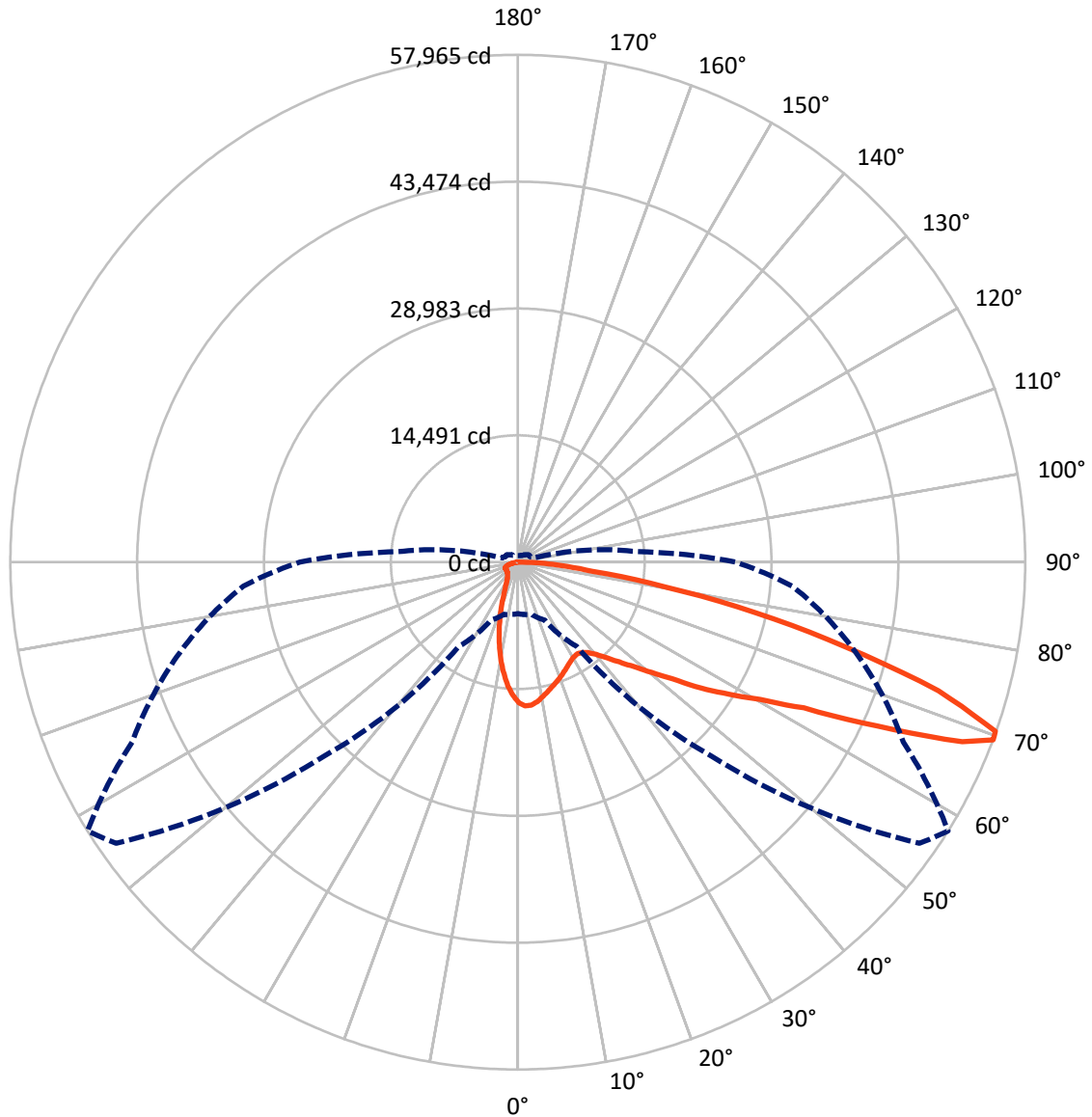
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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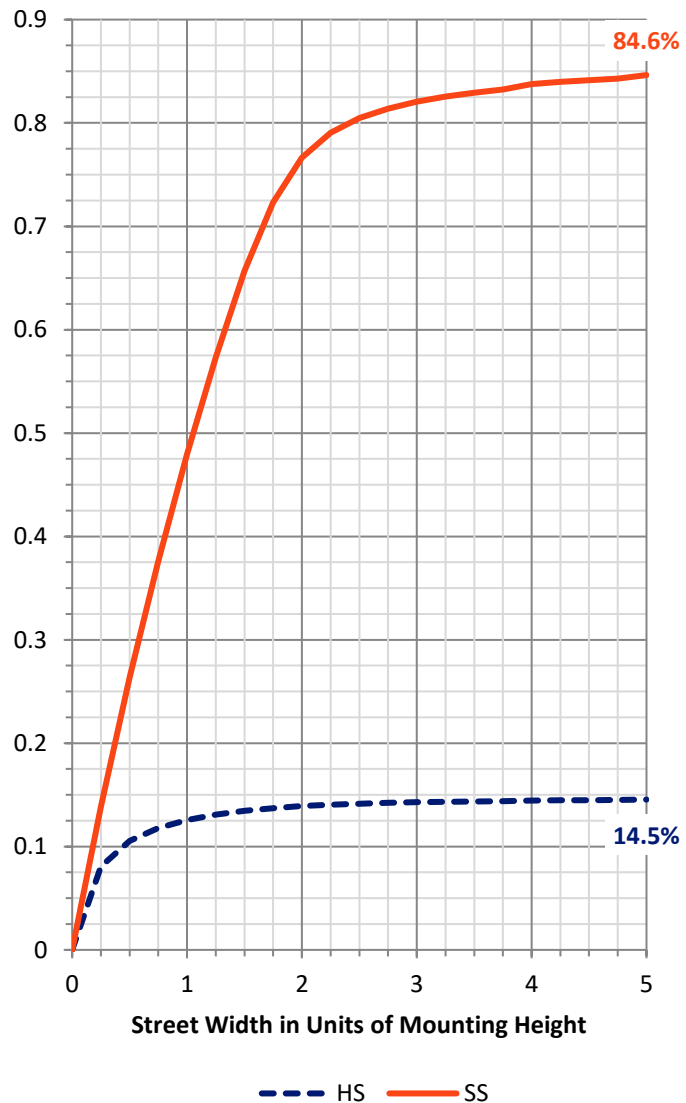
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8519.4	0.0	8519.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	49613.6	0.0	49613.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	58133.0	0.0	58133.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1364.3	2.3
10°-20°	2995.7	5.2
20°-30°	3870.5	6.7
30°-40°	5027.0	8.6
40°-50°	7308.6	12.6
50°-60°	11662.1	20.1
60°-70°	15579.1	26.8
70°-80°	8980.7	15.4
80°-90°	1345.1	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	58133.0	100.0
0°-180°	58133.0	100.0



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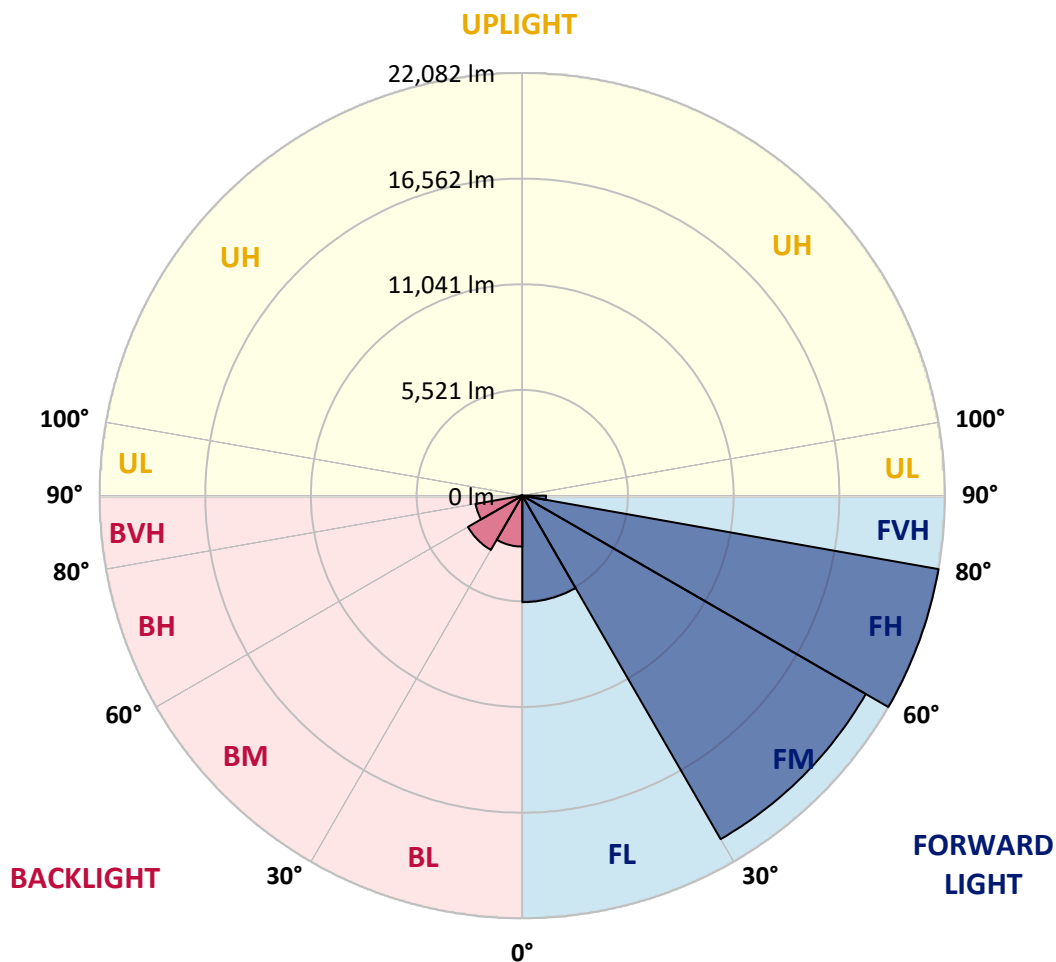
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5567.7	9.6			
FM (30°-60°)	20721.4	35.6			
FH (60°-80°)	22082.5	38.0			G5
FVH (80°-90°)	1242.1	2.1			G5
BL (0°-30°)	2662.8	4.6	B4/5000		
BM (30°-60°)	3276.3	5.6	B3/5000		
BH (60°-80°)	2477.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	103.1	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	16064.6	16064.6	16064.6	16064.6	16064.6	16064.6	16064.6	16064.6	16064.6	16064.6	16064.6
2.5°	16661.1	16706.5	16693.5	16677.3	16651.4	16580.1	16463.3	16443.9	16369.3	16210.5	16012.7
5°	16405.0	16443.9	16447.1	16469.8	16502.2	16489.3	16405.0	16395.3	16285.0	16071.0	15740.3
7.5°	15526.4	15578.2	15691.7	15818.2	15931.6	16038.6	16064.6	16080.8	16012.7	15766.3	15325.4
10°	14537.5	14589.4	14641.3	14829.3	15108.1	15374.0	15594.5	15623.6	15639.8	15412.9	14874.7
12.5°	13441.7	13548.7	13658.9	13937.7	14310.6	14728.8	15117.9	15179.5	15289.7	15117.9	14485.7
15°	12511.2	12621.5	12780.3	13030.0	13480.6	14083.6	14631.6	14732.1	14949.3	14861.7	14122.5
17.5°	11866.1	11905.0	12015.2	12300.5	12786.8	13422.3	14155.0	14356.0	14702.9	14680.2	13811.3
20°	11357.0	11405.7	11473.8	11648.8	12154.6	12825.7	13710.8	13970.2	14440.3	14518.1	13503.3
22.5°	11143.1	11178.7	11169.0	11263.0	11606.7	12281.0	13260.1	13568.1	14206.8	14407.8	13218.0
25°	11156.0	11188.5	11139.8	11117.1	11321.4	11801.2	12790.0	13182.3	14018.8	14333.3	12958.6
27.5°	11373.3	11395.9	11305.2	11214.4	11230.6	11502.9	12401.0	12835.4	13859.9	14365.7	12741.4
30°	11665.0	11707.2	11648.8	11538.6	11418.6	11431.6	12151.4	12579.3	13785.4	14479.2	12637.7
32.5°	12041.1	12080.0	12054.1	11966.6	11810.9	11639.1	12089.8	12485.3	13791.9	14709.4	12615.0
35°	12436.7	12514.5	12556.6	12550.1	12423.7	12125.4	12332.9	12660.4	13947.5	15095.2	12747.9
37.5°	12884.1	12948.9	13130.5	13247.2	13130.5	12783.6	12880.8	13107.8	14291.1	15652.8	13039.7
40°	13318.5	13415.8	13681.6	14044.7	13999.3	13694.6	13717.3	13866.4	14897.4	16482.8	13610.3
42.5°	13772.4	13889.1	14352.7	14890.9	14997.9	14761.2	14822.8	14955.8	15759.8	17633.7	14589.4
45°	14356.0	14495.4	15066.0	15737.1	16158.6	16012.7	16187.8	16252.6	16914.0	19131.6	15879.8
47.5°	15108.1	15270.2	15973.8	16810.2	17406.8	17539.7	17844.5	17805.6	18343.7	20905.0	17552.7
50°	16375.8	16466.6	17131.2	17983.9	18804.1	19403.9	19734.6	19796.2	20117.2	22629.8	19423.4
52.5°	17883.4	17964.4	18444.3	19189.9	20217.7	21488.6	22305.6	22104.6	22182.4	24730.7	21611.8
55°	19579.0	19715.2	20019.9	20515.9	21848.4	23719.1	25359.6	25408.3	24545.9	26740.8	23709.4
57.5°	20892.0	21122.2	21644.2	22351.0	24040.1	26199.3	28404.0	28436.4	27334.1	28887.0	26024.3
60°	20230.6	20503.0	21696.1	23417.6	26915.8	30527.5	32041.6	31856.8	30047.7	31331.6	28848.1
62.5°	17377.6	17426.2	19160.8	21851.7	27800.9	36317.9	37455.9	36674.5	33669.1	34431.0	31717.4
65°	11246.8	11564.5	12939.2	16709.7	24892.8	39530.8	46942.2	45136.4	38746.2	37948.7	34119.8
67.5°	7100.2	7019.1	7589.7	9541.5	17121.5	36700.5	55037.7	54752.4	45386.0	40169.5	33545.9
69°	5887.6	5978.4	6172.9	7314.2	11781.8	31334.8	55994.1	57965.3	48605.4	39994.4	31461.2
70°	5339.7	5381.9	5586.1	6484.2	9090.8	26244.7	54425.0	57877.8	49869.8	39261.7	29950.4
72.5°	4237.4	4234.2	4584.3	5394.8	6795.4	14981.7	44689.0	50249.2	48456.3	35851.0	24746.9
75°	3219.4	3271.3	3657.1	4564.9	6260.5	8186.3	31185.7	38697.6	38700.8	28316.4	15442.1
77.5°	2321.3	2353.8	2804.4	3832.2	5897.4	6636.6	20772.1	27755.5	26092.3	12974.8	4853.4
80°	1520.5	1540.0	1883.7	3034.6	5317.0	6260.5	12316.7	16988.6	12307.0	3443.1	1604.8
82.5°	833.2	930.5	1150.9	1964.7	4266.6	5783.9	7486.0	8598.0	4616.7	1533.5	836.5
85°	418.2	444.2	648.4	1147.7	2788.2	4785.3	5213.3	4931.2	2382.9	761.9	434.4
87.5°	123.2	155.6	269.1	444.2	1131.5	2493.2	2901.7	2603.4	917.5	275.6	90.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16064.6	16064.6	16064.6	16064.6	16064.6	16064.6	16064.6	16064.6	16064.6	16064.6	16064.6
2.5°	15931.6	15873.3	15613.9	15380.5	15166.5	14939.6	14748.3	14579.7	14595.9	14599.1	14427.3
5°	15568.5	15435.6	14942.8	14482.4	14093.4	13600.6	13179.1	12906.8	12770.6	12589.0	12653.9
7.5°	15075.7	14819.6	14135.5	13370.4	12653.9	12015.2	11321.4	10844.8	10540.0	10245.0	10283.9
10°	14566.7	14155.0	13159.6	12148.1	11220.9	10199.6	9314.5	8555.9	7991.8	7781.0	7641.6
12.5°	14044.7	13503.3	12238.9	10893.4	9612.8	8390.5	7135.8	6322.1	5699.6	5368.9	5411.0
15°	13568.1	12910.0	11279.2	9638.7	7975.5	6519.8	5268.4	4493.5	4059.1	3968.3	4020.2
17.5°	13127.2	12264.8	10381.2	8419.7	6477.7	4889.1	3958.6	3520.9	3345.8	3297.2	3294.0
20°	12673.3	11716.9	9372.9	7116.4	5047.9	3790.0	3248.6	3044.3	3011.9	3031.4	3034.6
22.5°	12213.0	11039.3	8335.4	5822.8	4020.2	3099.4	2840.1	2785.0	2810.9	2856.3	2862.8
25°	11788.2	10442.8	7336.9	4688.1	3209.7	2723.4	2596.9	2596.9	2655.3	2723.4	2726.6
27.5°	11438.1	9865.7	6341.5	3721.9	2687.7	2451.0	2408.9	2431.6	2512.6	2564.5	2567.7
30°	11149.5	9327.5	5401.3	2982.7	2363.5	2233.8	2224.1	2263.0	2321.3	2370.0	2373.2
32.5°	10932.3	8854.1	4522.7	2506.1	2139.8	2068.5	2065.2	2094.4	2126.8	2139.8	2152.7
35°	10848.0	8461.9	3718.7	2204.6	1990.6	1945.3	1945.3	1942.0	1955.0	1961.5	1967.9
37.5°	10916.1	8160.3	3096.2	2010.1	1880.4	1848.0	1828.5	1809.1	1802.6	1802.6	1805.8
40°	11204.7	8001.5	2632.6	1883.7	1802.6	1754.0	1718.3	1695.6	1672.9	1679.4	1685.9
42.5°	11817.4	8030.7	2318.1	1799.4	1734.5	1666.4	1614.6	1588.6	1572.4	1591.9	1588.6
45°	12793.3	8322.4	2117.1	1741.0	1666.4	1578.9	1530.3	1504.3	1504.3	1533.5	1543.2
47.5°	14158.2	8880.1	2010.1	1695.6	1614.6	1510.8	1462.2	1442.7	1449.2	1497.8	1501.1
50°	15824.6	9849.5	1990.6	1672.9	1588.6	1462.2	1407.1	1387.6	1403.8	1455.7	1462.2
52.5°	17662.9	11097.7	2084.7	1676.2	1565.9	1433.0	1361.7	1332.5	1348.7	1390.9	1403.8
55°	19841.6	12660.4	2327.8	1689.1	1533.5	1416.8	1329.3	1264.4	1283.9	1313.0	1316.3
57.5°	22065.7	14631.6	2755.8	1692.4	1507.6	1387.6	1274.1	1189.8	1189.8	1209.3	1219.0
60°	24782.5	16777.8	3319.9	1695.6	1510.8	1345.5	1199.6	1105.6	1092.6	1102.3	1105.6
62.5°	27480.0	18573.9	3413.9	1685.9	1543.2	1303.3	1118.5	1021.3	998.6	995.3	988.8
65°	28669.8	18240.0	2797.9	1640.5	1578.9	1277.4	1053.7	940.2	901.3	888.3	888.3
67.5°	26731.0	15429.1	2104.1	1578.9	1556.2	1251.4	992.1	872.1	826.7	800.8	800.8
69°	24909.0	13723.8	1890.1	1536.8	1497.8	1209.3	953.2	836.5	781.3	752.2	742.4
70°	23501.9	12550.1	1799.4	1501.1	1442.7	1160.7	924.0	810.5	748.9	716.5	710.0
72.5°	18755.5	9846.2	1575.7	1364.9	1228.8	975.9	820.2	729.5	671.1	635.4	625.7
75°	10809.1	5336.5	1306.6	1186.6	988.8	758.6	693.8	635.4	590.1	557.6	547.9
77.5°	3326.4	2062.0	946.7	937.0	726.2	586.8	554.4	531.7	499.3	463.6	457.1
80°	1400.6	1050.4	641.9	632.2	483.1	408.5	398.8	395.5	382.6	353.4	343.7
82.5°	768.4	593.3	447.4	389.1	291.8	236.7	246.4	249.6	239.9	210.7	191.3
85°	376.1	324.2	217.2	175.1	132.9	84.3	81.1	97.3	90.8	64.8	71.3
87.5°	74.6	90.8	58.4	25.9	13.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)