

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: P319324

Luminaire Tested: **GAN-SA0B-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50463 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

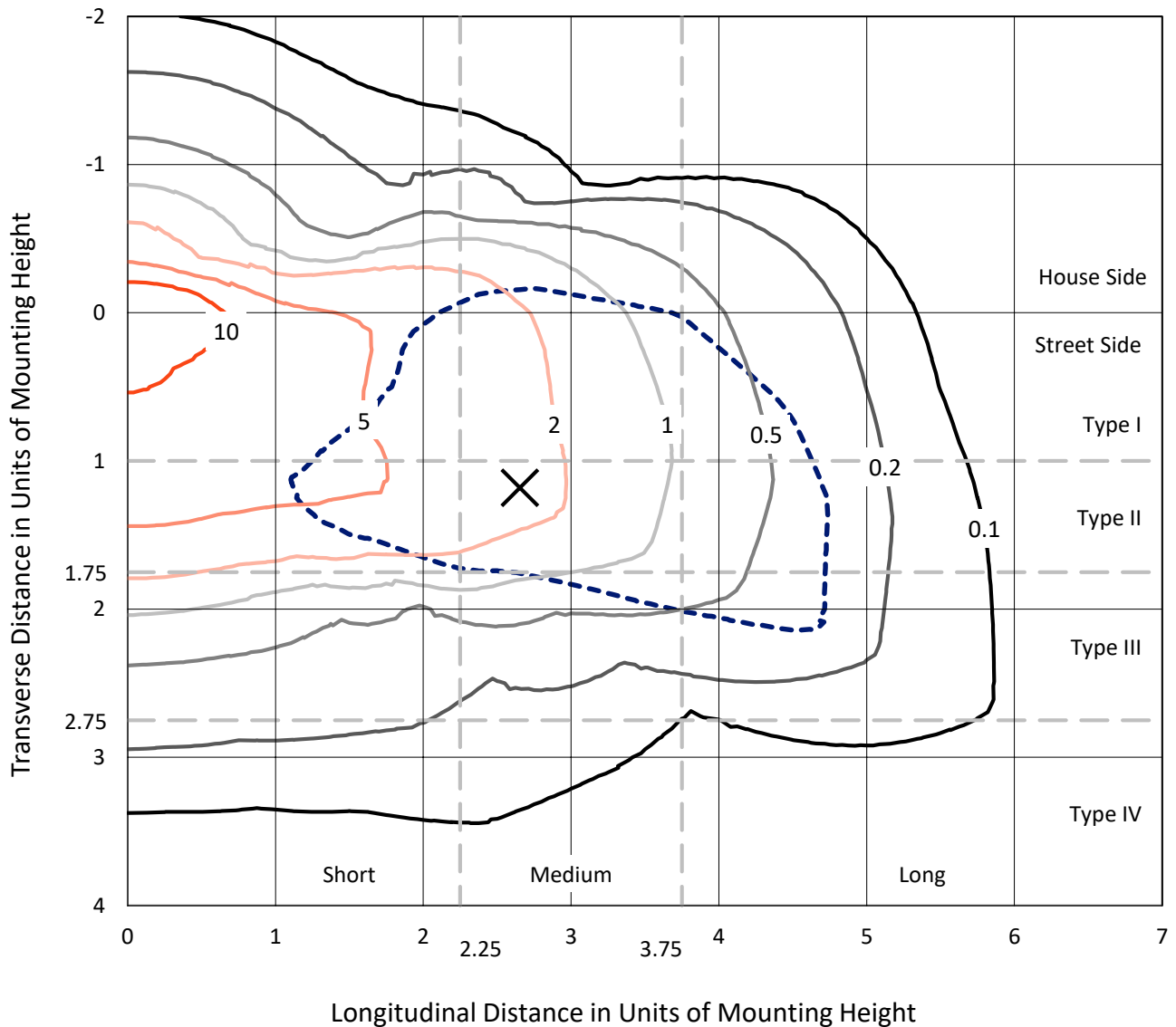
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

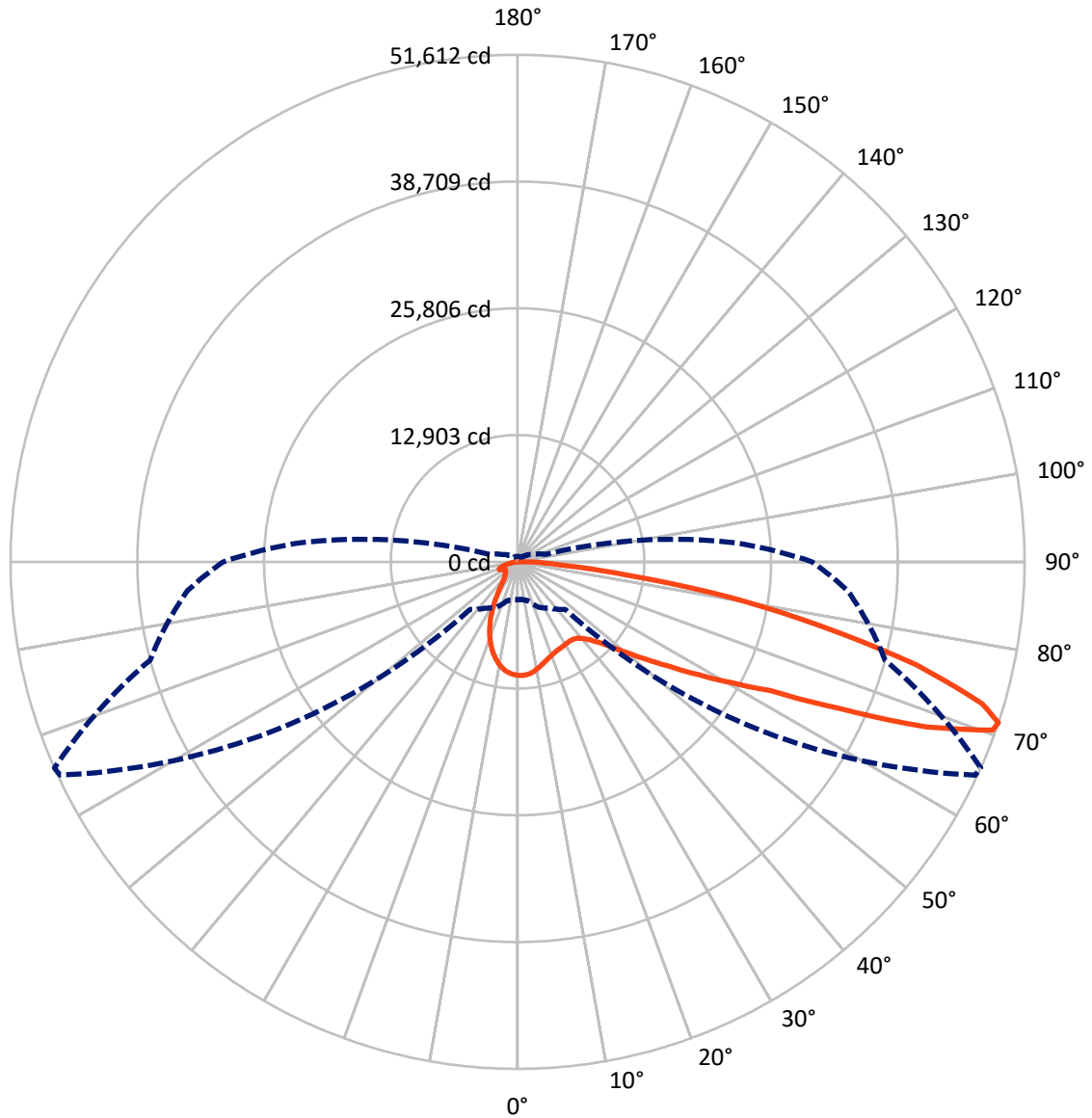
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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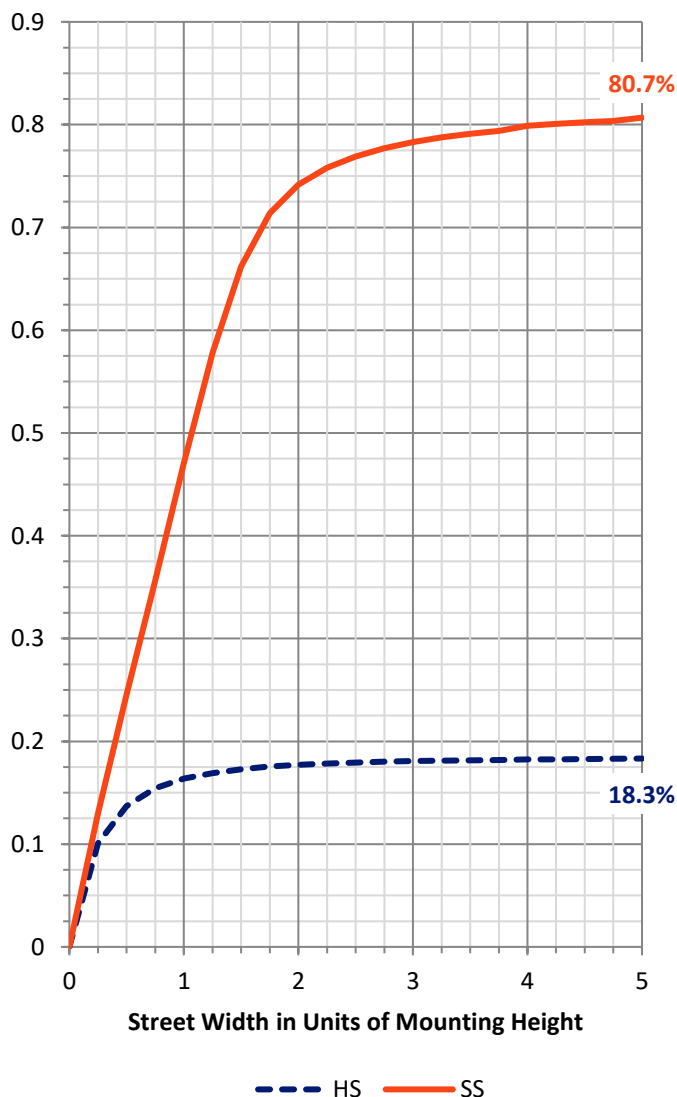
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9352.2	0.0	9352.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	41110.8	0.0	41110.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	50463.0	0.0	50463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.6	2.0
10°-20°	2440.6	4.8
20°-30°	3278.3	6.5
30°-40°	4312.5	8.5
40°-50°	6273.6	12.4
50°-60°	9800.0	19.4
60°-70°	12276.1	24.3
70°-80°	9363.9	18.6
80°-90°	1700.4	3.4
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°	50463.0	100.0
0°-180°	50463.0	100.0

Coefficient of Utilization



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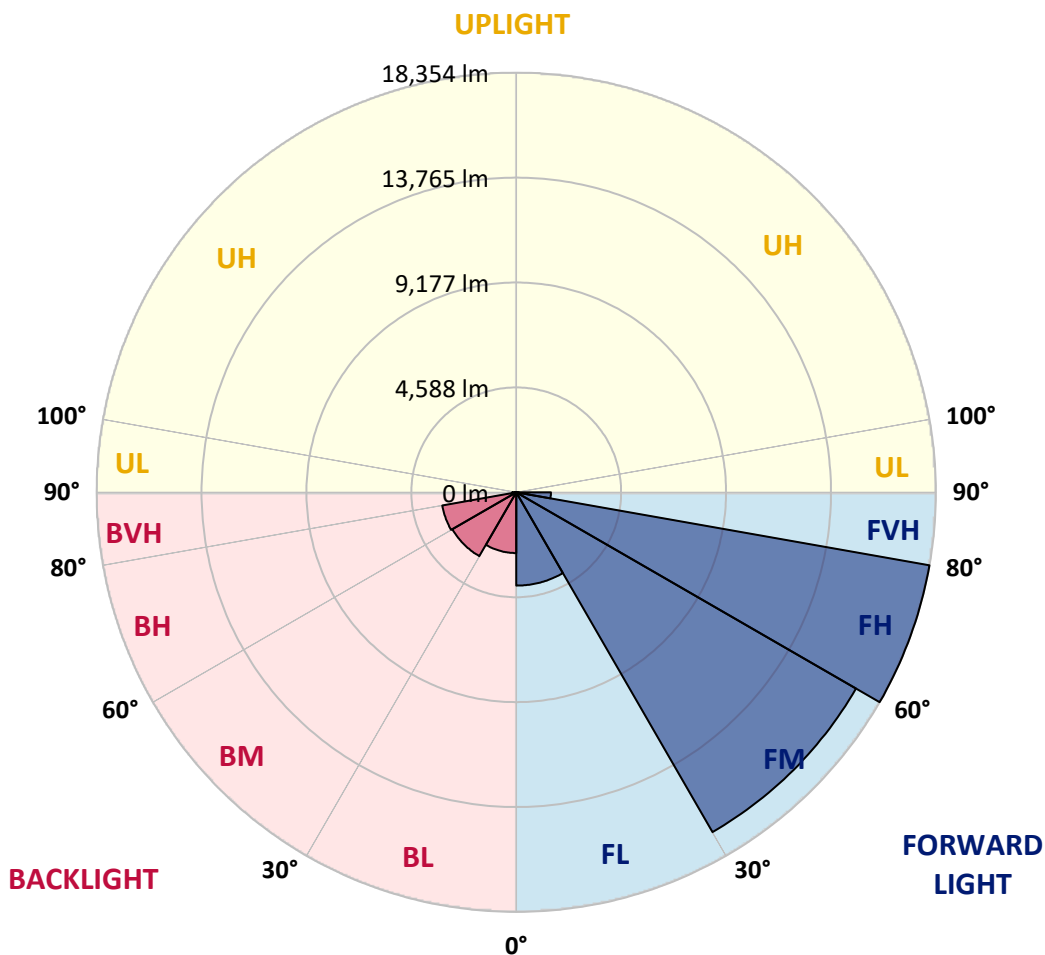
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4080.6	8.1			
FM (30°-60°)	17159.9	34.0			
FH (60°-80°)	18353.9	36.4			G5
FVH (80°-90°)	1516.3	3.0			G5
BL (0°-30°)	2655.8	5.3	B4/5000		
BM (30°-60°)	3226.2	6.4	B3/5000		
BH (60°-80°)	3286.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	184.1	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11560.1	11560.1	11560.1	11560.1	11560.1	11560.1	11560.1	11560.1	11560.1	11560.1	11560.1
2.5°	11345.8	11328.4	11380.6	11434.7	11455.6	11490.4	11542.7	11572.3	11570.6	11575.8	11558.4
5°	10593.1	10570.5	10675.0	10760.4	10924.2	11108.8	11333.6	11493.9	11497.4	11588.0	11612.4
7.5°	9880.5	9864.8	9985.1	10122.7	10312.6	10594.9	10959.0	11304.0	11324.9	11570.6	11655.9
10°	9309.1	9305.6	9422.3	9572.1	9793.4	10108.8	10526.9	11032.2	11063.5	11486.9	11662.9
12.5°	8863.0	8870.0	8971.1	9141.8	9375.3	9704.6	10157.6	10727.3	10777.8	11354.5	11622.8
15°	8533.7	8561.6	8643.5	8816.0	9046.0	9380.5	9845.7	10445.0	10521.7	11206.4	11600.2
17.5°	8345.6	8376.9	8434.4	8577.3	8793.3	9115.7	9556.5	10213.3	10283.0	11093.2	11601.9
20°	8289.8	8316.0	8349.1	8436.2	8619.1	8911.8	9328.2	10004.2	10079.1	11002.6	11619.3
22.5°	8399.6	8418.7	8422.2	8415.3	8526.8	8765.5	9162.7	9850.9	9931.1	10943.3	11631.5
25°	8634.8	8660.9	8641.8	8577.3	8540.7	8687.1	9077.3	9749.9	9830.0	10899.8	11607.1
27.5°	8988.5	8992.0	8976.3	8892.6	8720.2	8695.8	9051.2	9690.6	9767.3	10849.2	11556.6
30°	9469.3	9492.0	9464.1	9350.9	9068.6	8835.2	9082.6	9633.1	9702.8	10784.8	11474.7
32.5°	10032.1	10087.9	10086.1	9967.6	9563.4	9147.0	9211.5	9598.3	9652.3	10716.8	11375.4
35°	10615.8	10692.4	10835.3	10784.8	10284.7	9640.1	9458.9	9654.0	9690.6	10708.1	11305.7
37.5°	11222.1	11298.8	11593.2	11729.1	11143.7	10345.7	9849.2	9850.9	9868.3	10814.4	11300.5
40°	11856.3	11938.2	12380.7	12734.4	12257.0	11239.5	10478.1	10262.1	10242.9	11075.7	11403.3
42.5°	12744.9	12818.0	13349.4	13800.7	13492.3	12384.2	11347.5	10896.3	10856.2	11588.0	11732.6
45°	13868.6	13931.4	14495.9	14978.5	14819.9	13690.9	12440.0	11769.2	11762.2	12441.7	12399.9
47.5°	15205.0	15253.8	15760.8	16227.7	16285.2	15194.5	13812.9	13116.0	13002.7	13612.5	13433.1
50°	16597.1	16651.1	16996.0	17497.8	17924.7	17206.9	15579.6	14765.9	14614.3	15157.9	14896.6
52.5°	17518.7	17590.2	17889.8	18525.8	19768.0	19412.6	17668.6	16766.1	16536.1	17030.9	16830.5
55°	17107.5	17267.8	17726.1	18745.3	21242.0	22782.2	20245.4	19099.0	18839.4	19250.6	19132.1
57.5°	15238.1	15457.6	16083.1	17656.4	21449.3	25751.1	24141.2	21846.6	21663.6	21545.2	21599.2
60°	11821.4	12032.3	12807.6	14858.3	20005.0	27918.5	30004.0	25233.6	24968.8	23848.5	23897.3
62.5°	8366.5	8260.2	8791.6	10291.7	16255.6	28172.8	36675.2	29763.5	28892.4	26280.7	26066.4
65°	6380.3	6355.9	6594.6	7072.0	9845.7	25129.1	40649.4	37377.4	36016.6	29141.5	28636.3
67.5°	5242.6	5199.0	5434.2	6129.4	6340.2	16212.0	40736.5	46210.8	44874.4	32702.8	31608.6
70°	4310.4	4261.6	4481.2	5378.5	5859.3	8221.9	34284.8	51383.6	51312.2	37211.8	33852.7
71°	3864.4	3829.6	4092.6	5089.2	5756.5	6852.4	29601.5	51397.6	51611.9	38738.1	33720.3
72.5°	3146.6	3158.8	3437.5	4530.0	5679.9	6051.0	21756.0	49001.9	49454.9	40192.9	32516.4
75°	2090.7	2101.2	2467.1	3484.6	5507.4	5920.3	11957.3	41118.1	41950.9	39321.8	29671.2
77.5°	1404.3	1400.8	1649.9	2390.4	4798.3	5920.3	7011.0	30753.2	31667.9	31288.0	22874.5
80°	967.0	960.0	1136.0	1649.9	3632.7	5991.7	5420.3	21552.1	21829.2	16896.7	9296.9
82.5°	592.4	597.6	742.2	1165.6	2472.3	5392.4	5117.1	11751.7	11450.3	4739.0	2322.5
85°	339.7	338.0	473.9	789.3	1587.2	4550.9	4989.9	5057.9	4639.7	1426.9	839.8
87.5°	122.0	130.7	254.4	437.3	909.5	3169.2	4233.8	2630.9	2371.3	644.6	379.8
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°	11560.1	11560.1	11560.1	11560.1	11560.1	11560.1	11560.1	11560.1	11560.1	11560.1	11560.1
2.5°	11546.2	11556.6	11544.4	11474.7	11415.5	11319.7	11265.6	11190.7	11168.1	11157.6	11185.5
5°	11589.7	11593.2	11490.4	11307.5	11101.9	10859.7	10685.5	10471.2	10370.1	10326.6	10354.4
7.5°	11629.8	11614.1	11389.4	11039.2	10659.3	10237.7	9863.1	9519.9	9319.5	9237.6	9244.6
10°	11635.0	11568.8	11208.2	10666.3	10077.4	9458.9	8883.9	8354.3	8019.8	7802.0	7868.2
12.5°	11581.0	11469.5	10941.6	10183.7	9366.6	8523.3	7746.2	6951.7	6474.4	6253.1	6260.0
15°	11539.2	11337.1	10614.0	9615.7	8518.1	7401.2	6340.2	5406.3	4897.6	4671.1	4564.8
17.5°	11504.3	11194.2	10234.2	8976.3	7516.2	6099.8	4824.4	3991.6	3712.8	3646.6	3618.7
20°	11455.6	11042.6	9810.8	8235.8	6375.0	4643.2	3522.9	3111.7	3113.5	3190.1	3200.6
22.5°	11387.6	10870.1	9359.6	7404.7	5150.2	3381.8	2761.5	2643.1	2763.3	2909.6	2935.8
25°	11286.6	10666.3	8857.8	6486.5	3927.1	2599.5	2359.1	2353.8	2500.2	2653.5	2676.2
27.5°	11143.7	10399.7	8300.3	5500.4	2893.9	2209.2	2113.4	2150.0	2258.0	2369.5	2378.2
30°	10952.0	10089.6	7685.2	4460.3	2268.5	1967.0	1956.6	1989.7	2055.9	2134.3	2141.3
32.5°	10741.2	9774.2	7028.4	3453.2	1942.7	1836.4	1846.8	1862.5	1893.9	1925.2	1932.2
35°	10549.6	9451.9	6355.9	2623.9	1787.6	1751.0	1744.0	1740.5	1744.0	1733.6	1735.3
37.5°	10425.9	9185.4	5655.5	2089.0	1698.7	1676.1	1655.2	1629.0	1599.4	1582.0	1585.5
40°	10380.6	8986.7	4946.4	1805.0	1625.6	1609.9	1569.8	1514.1	1479.2	1468.8	1468.8
42.5°	10502.5	8883.9	4261.6	1662.1	1564.6	1538.4	1472.2	1407.8	1381.6	1379.9	1378.2
45°	10875.4	8925.8	3610.0	1583.7	1508.8	1458.3	1371.2	1317.2	1299.7	1303.2	1301.5
47.5°	11544.4	9188.8	3052.5	1531.5	1453.1	1386.9	1289.3	1245.7	1224.8	1224.8	1226.6
50°	12682.1	9803.9	2608.2	1487.9	1406.0	1320.7	1230.1	1176.0	1148.2	1146.4	1146.4
52.5°	14339.0	10905.0	2331.2	1451.3	1353.8	1261.4	1170.8	1102.9	1069.8	1062.8	1059.3
55°	16415.9	12483.5	2254.5	1426.9	1284.1	1197.0	1099.4	1031.4	994.8	979.2	977.4
57.5°	18738.3	14403.5	2406.1	1397.3	1212.6	1120.3	1021.0	956.5	918.2	899.0	897.3
60°	21088.7	16499.5	3024.6	1355.5	1153.4	1036.7	940.8	881.6	843.3	822.4	818.9
62.5°	23442.5	18708.7	4287.8	1352.0	1111.6	956.5	858.9	808.4	771.8	749.2	744.0
65°	26097.8	21127.0	5723.4	1444.4	1097.6	883.3	775.3	735.2	703.9	683.0	681.2
67.5°	29146.8	23857.2	5585.8	1634.3	1144.7	817.1	696.9	665.6	642.9	625.5	623.7
70°	30577.2	23430.3	3472.4	1768.4	1210.9	752.7	622.0	599.3	581.9	569.7	564.5
71°	29977.8	22247.3	2911.4	1752.7	1203.9	724.8	592.4	575.0	557.5	547.1	541.9
72.5°	28343.6	20289.0	2428.8	1630.8	1125.5	674.3	554.0	536.6	520.9	508.7	505.3
75°	25434.0	18119.8	1944.4	1303.2	897.3	569.7	486.1	466.9	454.7	447.8	440.8
77.5°	18696.5	12931.3	1503.6	1029.7	660.3	465.2	414.7	400.7	388.5	378.1	372.9
80°	7162.6	5009.1	1012.3	768.4	484.4	367.6	334.5	327.6	315.4	308.4	308.4
82.5°	1928.7	1496.6	540.1	465.2	324.1	268.3	256.1	252.6	242.2	228.2	230.0
85°	780.5	660.3	303.2	256.1	198.6	158.5	172.5	174.2	162.0	144.6	146.4
87.5°	343.2	280.5	169.0	113.2	87.1	61.0	78.4	78.4	71.4	59.2	54.0
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)