

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: McGRAW-EDISON

Report Number: P532558

Luminaire Tested: **GALN-SA7D-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37625 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 433
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



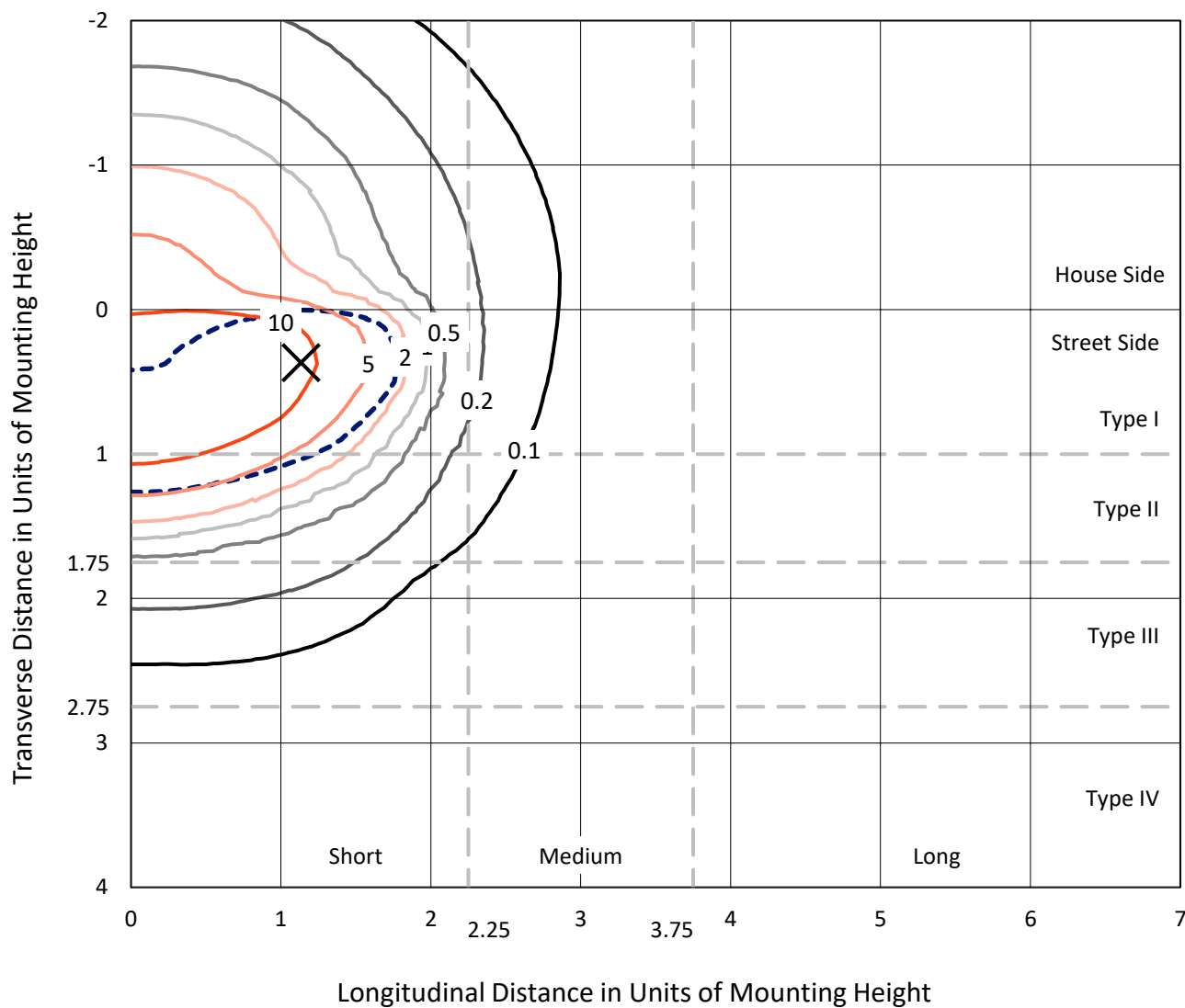
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

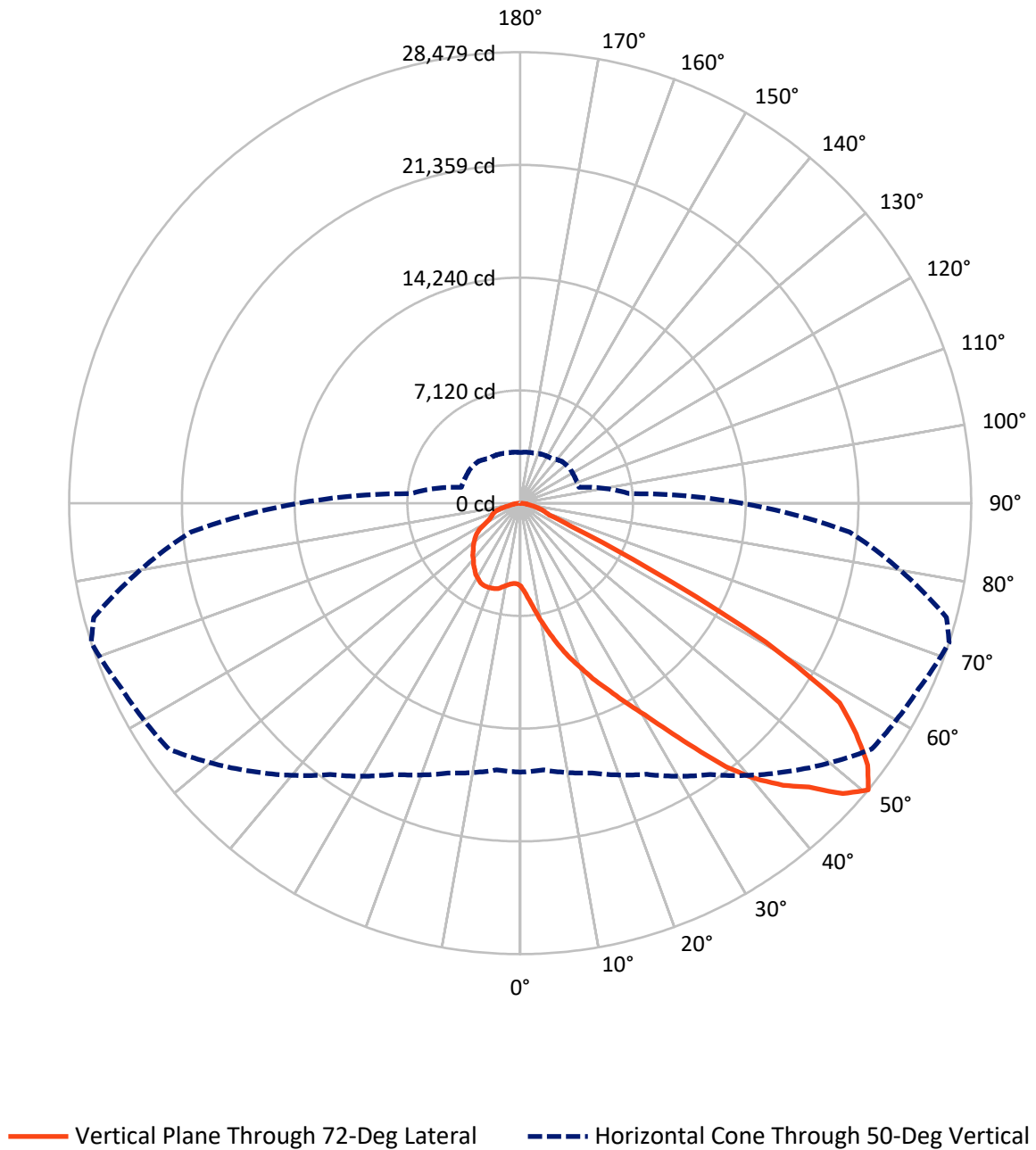


Based on 25 foot mounting height. Maximum calculated value = 18.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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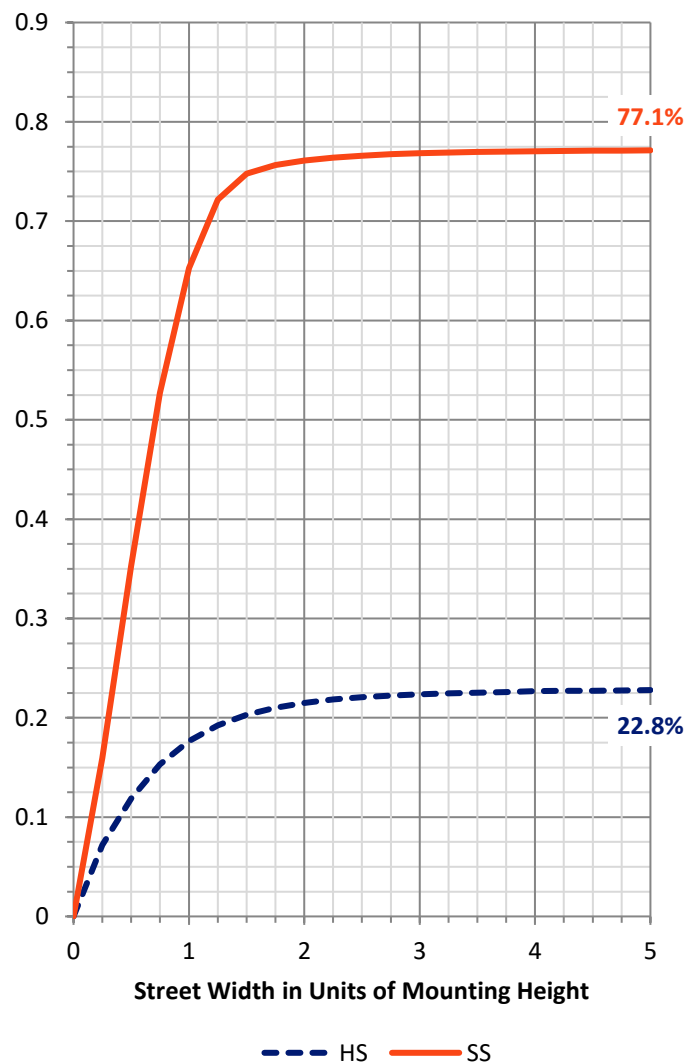
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8620.1	0.0	8620.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	29004.9	0.0	29004.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	37625.0	0.0	37625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.1	1.6
10°-20°	2303.1	6.1
20°-30°	4465.6	11.9
30°-40°	7398.0	19.7
40°-50°	10351.4	27.5
50°-60°	8732.8	23.2
60°-70°	2661.7	7.1
70°-80°	933.8	2.5
80°-90°	162.3	0.4
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°	37625.0	100.0
0°-180°	37625.0	100.0

Coefficient of Utilization



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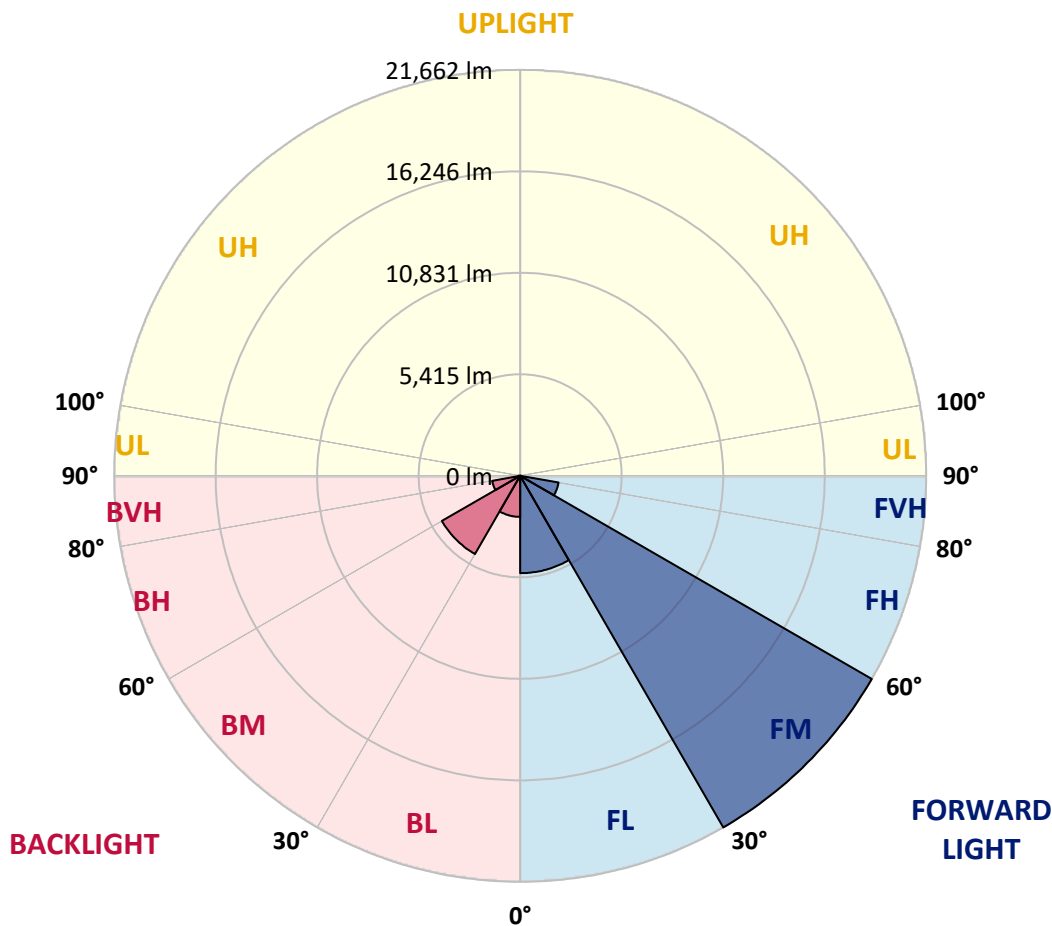
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5193.6	13.8			
FM	(30°-60°)	21661.7	57.6			
FH	(60°-80°)	2076.8	5.5			G2/5000
FVH	(80°-90°)	72.7	0.2			G1/100
BL	(0°-30°)	2191.3	5.8	B3/2500		
BM	(30°-60°)	4820.5	12.8	B3/5000		
BH	(60°-80°)	1518.7	4.0	B3/2500		G3/2500
BVH	(80°-90°)	89.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5237.7	5237.7	5237.7	5237.7	5237.7	5237.7	5237.7	5237.7	5237.7	5237.7	5237.7
2.5°	6736.9	6695.0	6569.3	6527.4	6378.4	6108.3	6015.2	5740.5	5624.1	5517.1	5391.4
5°	8520.0	8324.5	8310.5	8073.1	7728.5	7528.4	6932.4	6532.0	6164.2	5978.0	5633.5
7.5°	9656.0	9660.7	9660.7	9465.1	9190.5	8683.0	8147.6	7425.9	6871.9	6597.2	6010.6
10°	10736.2	10643.0	10591.8	10573.2	10387.0	9893.5	9320.8	8426.9	7668.0	7346.8	6294.6
12.5°	11499.7	11420.6	11537.0	11476.4	11341.4	11020.2	10480.1	9460.5	8510.7	8077.7	6750.8
15°	11862.9	11918.7	12011.8	12179.4	12118.9	11997.9	11401.9	10522.0	9418.6	8929.7	7155.9
17.5°	12421.5	12267.9	12379.6	12589.2	12756.8	12700.9	12361.0	11290.2	10317.1	9716.6	7700.6
20°	12812.6	12724.2	12780.0	13022.1	13147.8	13464.4	13287.5	12295.8	11178.5	10545.3	8343.1
22.5°	13930.0	13799.6	13618.1	13655.3	13701.9	13925.4	13967.3	13399.3	12179.4	11509.0	8953.0
25°	15308.1	15187.1	14972.9	14754.1	14619.1	14577.2	14721.5	14265.2	13138.5	12444.8	9609.5
27.5°	16825.9	16621.0	16486.0	16034.4	15671.3	15615.4	15545.6	15298.8	14274.5	13525.0	10349.7
30°	18301.8	18138.8	17957.2	17235.6	16858.5	16798.0	16453.4	16523.3	15508.3	14674.9	11187.8
32.5°	19419.1	19433.1	19018.7	18474.0	18120.2	17798.9	17673.2	17873.4	17091.3	16420.8	12123.6
35°	20322.4	20364.3	19968.5	19475.0	19093.2	19316.7	19260.8	19354.0	18981.5	18162.1	13213.0
37.5°	21202.3	20992.8	20569.1	20331.7	20131.5	20499.3	20974.2	21053.3	21123.1	20159.4	14479.4
40°	21346.6	21365.2	21118.5	21286.1	21034.7	21588.7	22692.1	22589.7	22873.7	22031.0	15852.8
42.5°	21141.8	21183.7	21281.4	21518.9	22124.1	22789.9	24428.7	24009.7	24354.2	23604.7	17189.0
45°	20806.6	20634.3	20755.3	21658.6	22706.1	24186.6	26016.3	25690.4	25578.7	24950.2	18781.3
47.5°	19205.0	19381.9	19759.0	20871.7	22445.4	24428.7	27143.0	27068.5	27403.8	26961.5	20229.2
50°	16984.2	16914.3	17640.6	18893.0	20922.9	23953.8	27082.5	27757.6	28479.2	27864.7	20876.4
52.5°	12719.5	13092.0	13715.8	15270.9	18166.7	21365.2	25760.3	26887.0	27473.6	27343.2	20354.9
55°	8040.5	8152.2	8529.3	10377.7	12984.9	17147.1	22082.2	24694.1	25741.7	26230.5	19875.4
57.5°	3906.2	3696.7	4157.6	5642.8	7500.4	11532.3	17030.7	21509.6	23786.2	24670.8	18832.5
60°	2039.2	2118.4	2299.9	2830.7	3878.2	5987.3	10615.1	14335.1	17812.9	19172.4	14274.5
62.5°	1690.0	1718.0	1839.0	2104.4	2579.3	3445.3	5419.3	6988.3	9083.4	10307.8	8119.6
65°	1434.0	1447.9	1578.3	1755.2	2057.8	2425.6	2788.8	2919.2	3533.7	3626.8	2886.6
67.5°	1196.5	1210.5	1350.2	1517.8	1713.3	1811.1	1904.2	1894.9	1964.7	1936.8	1932.1
70°	921.8	935.8	1080.1	1257.1	1354.8	1299.0	1587.6	1652.8	1680.7	1704.0	1741.3
72.5°	665.8	693.7	805.4	931.2	879.9	1010.3	1308.3	1406.0	1443.3	1457.3	1503.8
75°	484.2	493.5	521.4	484.2	558.7	703.0	921.8	1042.9	1089.4	1103.4	1173.2
77.5°	214.2	218.8	223.5	279.3	358.5	437.6	549.4	647.1	712.3	731.0	749.6
80°	111.7	116.4	144.3	190.9	256.1	321.2	400.4	456.3	498.2	502.8	521.4
82.5°	69.8	74.5	102.4	135.0	181.6	237.4	293.3	339.9	372.5	377.1	381.8
85°	32.6	41.9	60.5	83.8	121.0	153.6	158.3	135.0	144.3	149.0	139.7
87.5°	9.3	14.0	18.6	14.0	18.6	18.6	23.3	27.9	27.9	27.9	32.6
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°	5237.7	5237.7	5237.7	5237.7	5237.7	5237.7	5237.7	5237.7	5237.7	5237.7	5237.7
2.5°	5321.5	5279.6	5116.7	5056.1	4897.9	4925.8	4842.0	4837.3	4818.7	4814.0	4809.4
5°	5451.9	5321.5	5126.0	4977.0	4888.5	4879.2	4818.7	4818.7	4837.3	4851.3	4818.7
7.5°	5666.1	5517.1	5186.5	5046.8	4967.7	4953.7	4911.8	4879.2	4921.1	4907.2	4869.9
10°	5912.8	5652.1	5302.9	5181.9	5051.5	5018.9	5018.9	5032.9	4963.0	4986.3	4949.1
12.5°	6187.5	5838.3	5451.9	5312.2	5158.6	5140.0	5130.6	5028.2	5065.5	5046.8	4953.7
15°	6536.7	6052.5	5642.8	5405.3	5275.0	5191.2	5070.1	5051.5	5028.2	4981.7	4939.8
17.5°	6913.8	6285.3	5731.2	5433.3	5237.7	5177.2	5084.1	4986.3	4916.5	4925.8	4893.2
20°	7235.0	6499.4	5763.8	5461.2	5209.8	5093.4	4949.1	4888.5	4814.0	4809.4	4804.7
22.5°	7616.8	6788.1	5810.4	5386.7	5126.0	5004.9	4907.2	4800.1	4748.9	4683.7	4716.3
25°	8073.1	6899.8	5819.7	5344.8	5065.5	4851.3	4800.1	4683.7	4665.1	4571.9	4590.6
27.5°	8403.6	6960.3	5745.2	5214.4	4925.8	4762.8	4669.7	4585.9	4553.3	4483.5	4464.9
30°	8845.9	7053.5	5586.9	5051.5	4786.1	4604.5	4548.7	4530.0	4436.9	4362.4	4353.1
32.5°	9348.7	7114.0	5484.5	4883.9	4641.8	4502.1	4530.0	4441.6	4325.2	4260.0	4241.4
35°	9749.1	7137.3	5228.4	4693.0	4544.0	4455.6	4423.0	4404.3	4236.7	4176.2	4129.7
37.5°	10359.0	7086.1	5014.2	4558.0	4436.9	4404.3	4376.4	4250.7	4059.8	3971.4	3906.2
40°	11071.4	7072.1	4739.6	4367.1	4334.5	4371.8	4287.9	4092.4	3827.0	3729.3	3682.7
42.5°	11755.8	7169.9	4567.3	4264.7	4222.8	4236.7	4120.3	3827.0	3696.7	3640.8	3566.3
45°	12901.1	7374.7	4283.3	4106.4	4087.8	4078.4	3938.8	3631.5	3557.0	3487.2	3473.2
47.5°	13934.7	7239.7	4101.7	3943.4	3962.0	3910.8	3612.9	3515.1	3431.3	3361.5	3338.2
50°	13995.2	6918.4	3845.7	3817.7	3822.4	3733.9	3449.9	3384.7	3277.6	3231.1	3198.5
52.5°	13678.6	6392.3	3608.2	3617.5	3631.5	3487.2	3249.7	3203.2	3114.7	3049.5	3030.9
55°	12789.4	5572.9	3375.4	3412.7	3449.9	3175.2	3100.7	2984.3	2914.5	2821.4	2826.0
57.5°	11266.9	4488.1	3049.5	3110.0	3189.2	2886.6	2830.7	2686.4	2583.9	2509.5	2500.1
60°	7551.6	3193.8	2560.7	2583.9	2760.9	2639.8	2635.2	2490.8	2351.2	2286.0	2248.7
62.5°	4455.6	2439.6	2211.5	2188.2	2183.5	2253.4	2369.8	2318.6	2137.0	2011.3	2048.5
65°	2332.5	2109.1	2057.8	1978.7	1932.1	1913.5	2002.0	2025.3	1904.2	1769.2	1759.9
67.5°	1960.1	1960.1	1918.2	1890.2	1825.1	1745.9	1690.0	1615.5	1596.9	1559.7	1513.1
70°	1783.2	1829.7	1815.7	1750.6	1694.7	1606.2	1461.9	1340.9	1224.5	1182.6	1210.5
72.5°	1555.0	1601.6	1601.6	1569.0	1494.5	1359.5	1219.8	1080.1	982.4	907.9	898.6
75°	1196.5	1219.8	1275.7	1238.4	1140.7	1056.9	912.5	768.2	675.1	605.2	591.3
77.5°	763.5	800.8	800.8	796.1	726.3	647.1	554.0	451.6	381.8	330.6	316.6
80°	507.5	530.8	549.4	530.8	484.2	423.7	353.8	284.0	232.8	190.9	181.6
82.5°	372.5	400.4	414.4	395.7	349.2	302.6	251.4	200.2	149.0	116.4	107.1
85°	144.3	149.0	167.6	200.2	195.5	190.9	153.6	111.7	83.8	60.5	55.9
87.5°	37.2	32.6	37.2	37.2	32.6	27.9	27.9	27.9	27.9	14.0	18.6
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)