

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: P458360

Luminaire Tested: **GALN-SA9D-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46891 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

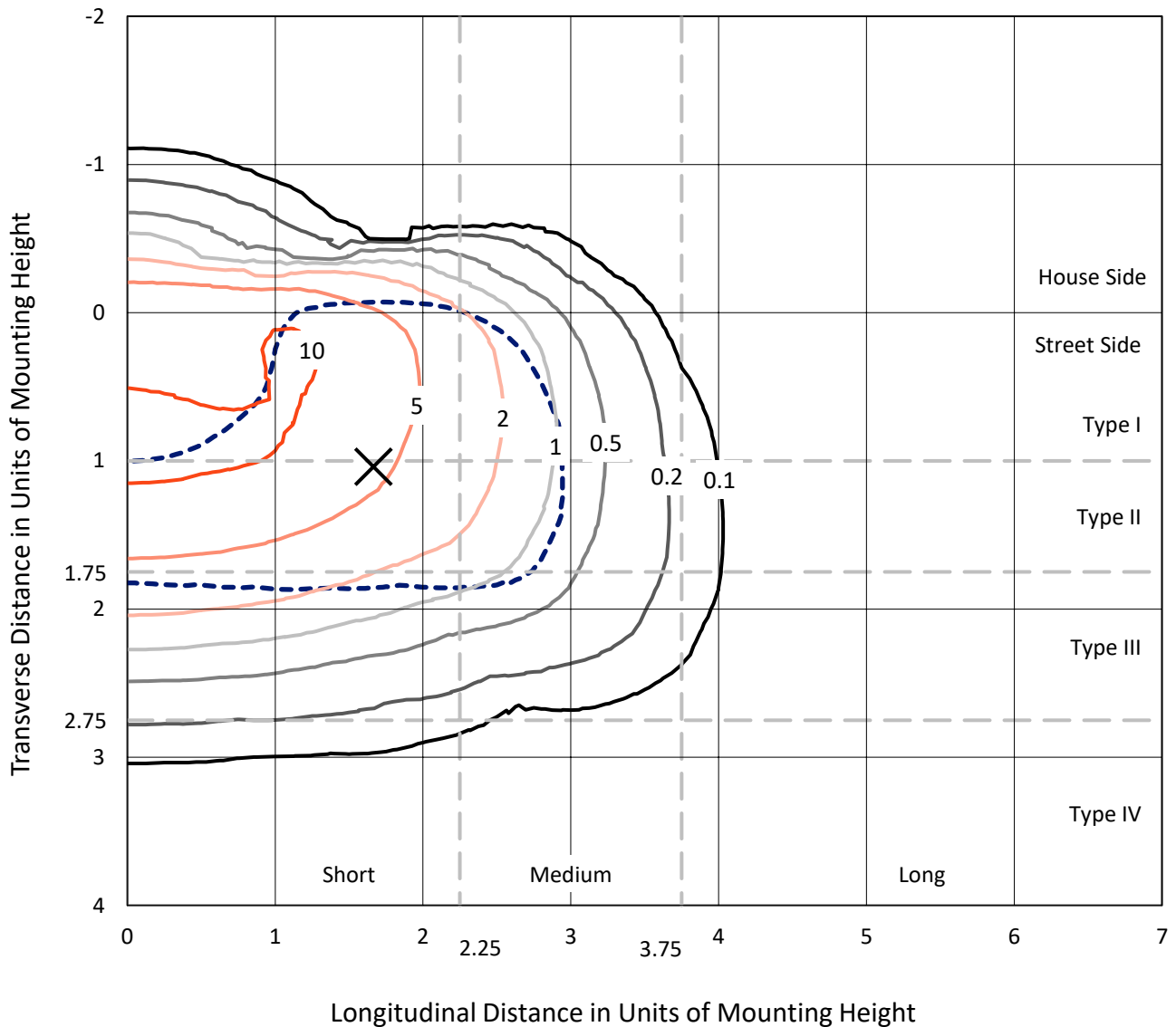
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

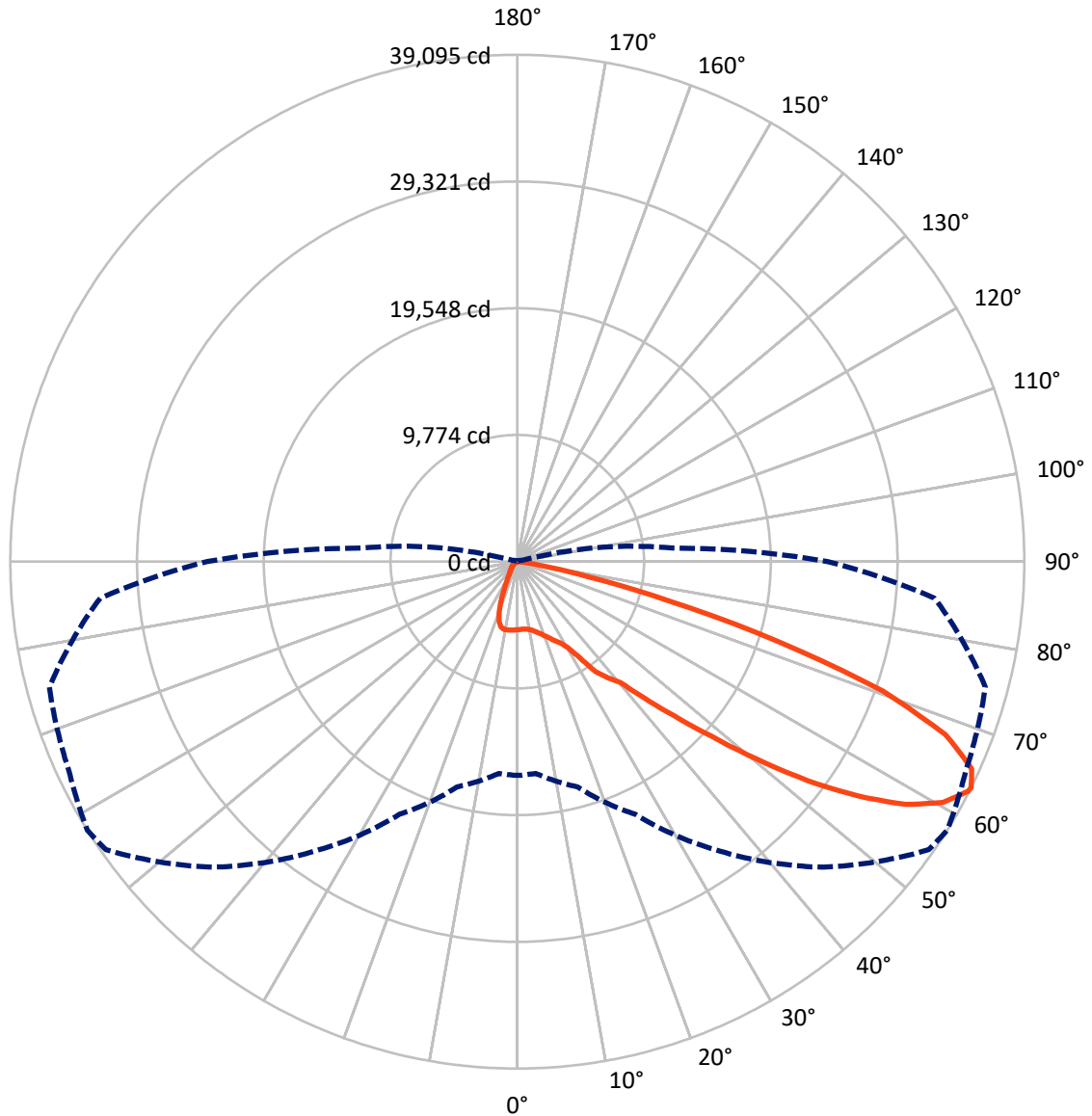
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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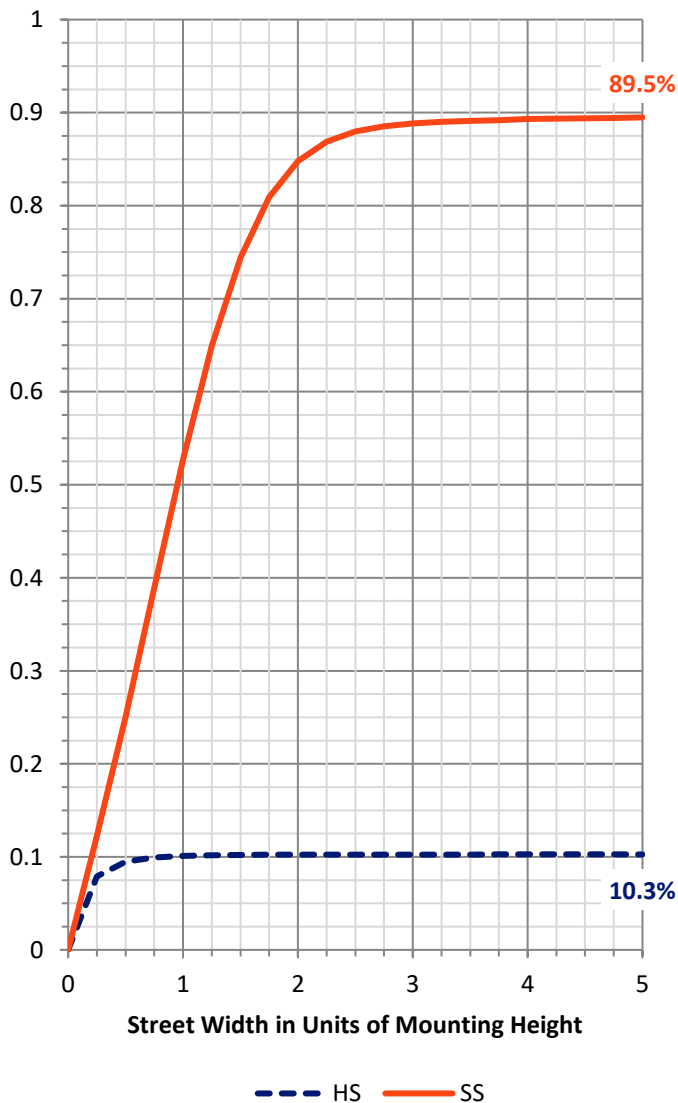
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4855.3	0.0	4855.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	42035.7	0.0	42035.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	46891.0	0.0	46891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.4	1.0
10°-20°	1338.5	2.9
20°-30°	2323.0	5.0
30°-40°	4268.8	9.1
40°-50°	8036.0	17.1
50°-60°	13744.9	29.3
60°-70°	13160.8	28.1
70°-80°	3356.0	7.2
80°-90°	171.6	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°	46891.0	100.0
0°-180°	46891.0	100.0

Coefficient of Utilization



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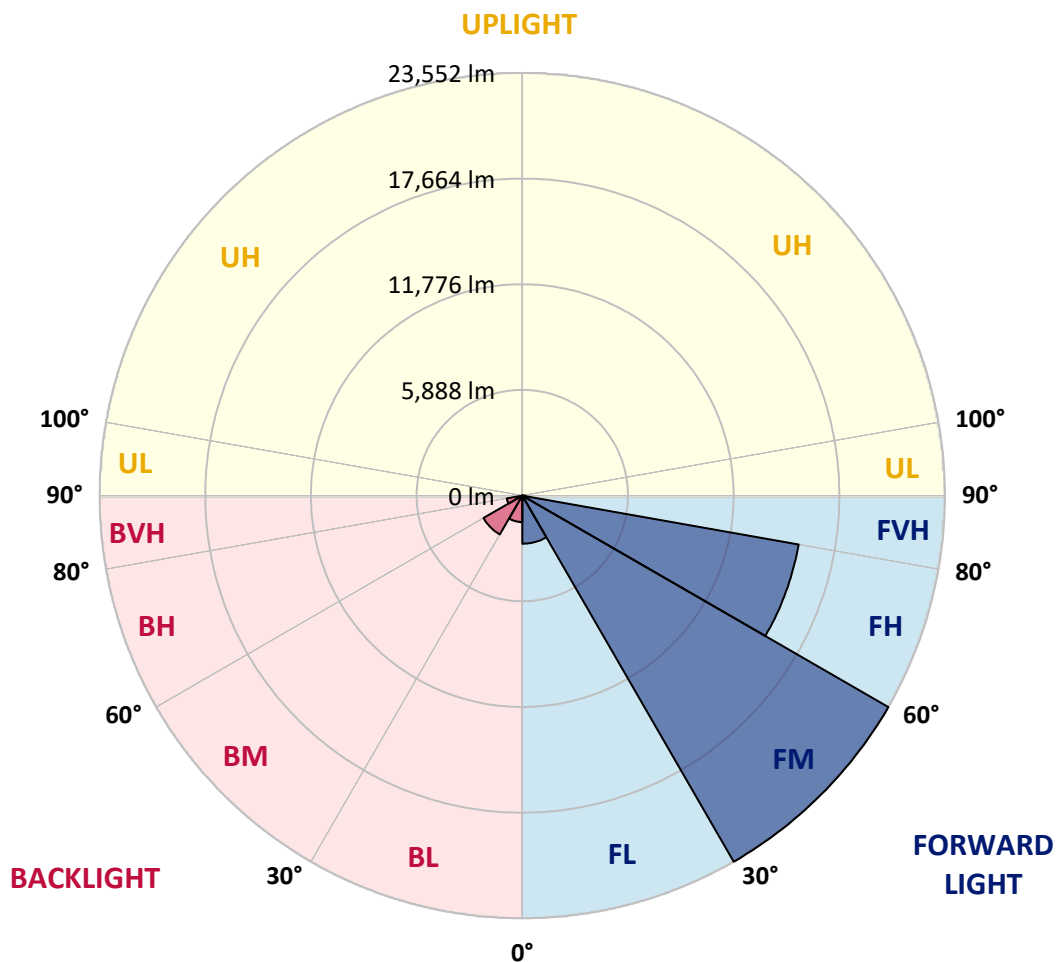
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2680.5	5.7			
FM (30°-60°)	23552.4	50.2			
FH (60°-80°)	15637.9	33.3			G5
FVH (80°-90°)	164.9	0.4			G2/225
BL (0°-30°)	1472.5	3.1	B3/2500		
BM (30°-60°)	2497.3	5.3	B2/2500		
BH (60°-80°)	878.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	6.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5249.6	5249.6	5249.6	5249.6	5249.6	5249.6	5249.6	5249.6	5249.6	5249.6	5249.6
2.5°	5119.0	5136.7	5154.3	5161.4	5186.1	5210.8	5228.4	5224.9	5253.2	5267.3	5267.3
5°	4914.2	4914.2	4960.1	5002.5	5073.1	5143.7	5210.8	5224.9	5277.9	5327.3	5344.9
7.5°	4741.3	4751.8	4787.2	4864.8	4960.1	5083.7	5217.9	5249.6	5341.4	5450.9	5496.8
10°	4660.1	4667.1	4713.0	4794.2	4914.2	5083.7	5270.8	5330.8	5472.0	5645.0	5708.6
12.5°	4642.4	4653.0	4698.9	4790.7	4928.4	5133.1	5387.3	5450.9	5655.6	5878.0	5973.4
15°	4674.2	4681.2	4727.1	4826.0	4977.8	5221.4	5542.6	5630.9	5874.5	6132.2	6255.8
17.5°	4787.2	4780.1	4811.9	4893.1	5062.5	5330.8	5729.8	5835.7	6121.6	6474.7	6555.9
20°	5267.3	5221.4	5193.1	5122.5	5189.6	5486.2	5955.7	6111.0	6464.1	6824.2	6880.7
22.5°	6301.7	6199.3	5998.1	5722.7	5510.9	5698.0	6227.5	6407.6	6863.0	7216.0	7216.0
25°	7618.5	7487.9	7286.6	6686.5	6167.5	6047.5	6534.7	6760.6	7297.2	7653.8	7537.3
27.5°	9267.2	9164.8	8772.9	8073.9	7279.6	6658.2	6891.2	7099.5	7682.0	8112.7	7869.1
30°	10608.7	10559.3	10238.0	9613.1	8737.6	7830.3	7554.9	7692.6	8193.9	8691.7	8441.1
32.5°	11741.9	11741.9	11413.6	10831.1	10012.1	9207.1	8681.1	8780.0	9260.1	9835.6	9369.5
35°	12988.2	12945.8	12681.0	12126.7	11208.9	10499.3	10283.9	10418.1	10852.3	11279.5	10132.1
37.5°	14297.9	14283.8	14008.4	13471.8	12723.4	11830.2	11325.4	11360.7	11583.1	11844.3	11025.3
40°	15720.6	15741.8	15381.7	15049.9	14343.8	13429.4	12462.1	12239.7	12448.0	13185.9	12674.0
42.5°	17401.1	17351.7	17196.3	16744.4	16176.1	15628.9	14467.4	14386.2	14569.7	15360.5	14806.3
45°	19353.4	19424.0	19155.7	18905.0	18523.7	18068.3	17097.5	16956.3	17157.5	18386.1	17598.8
47.5°	21309.2	21242.1	21415.1	21369.2	21574.0	21235.0	20377.2	20087.7	20571.3	21736.4	20578.4
50°	22799.0	22873.1	23233.2	23759.2	24638.3	24828.9	24006.4	23907.5	24122.9	24871.3	23243.8
52.5°	23766.3	24013.4	24578.3	25930.4	27515.5	28747.6	28122.8	28069.8	27981.5	28182.8	25792.7
55°	24398.2	24648.9	25386.7	27377.9	30106.8	32108.5	32140.3	31914.4	31331.8	31187.1	28175.7
57.5°	24009.9	24059.3	25111.4	27773.3	31543.7	34505.6	35543.6	35317.6	34240.9	33693.6	30279.8
60°	21581.0	21683.4	23148.5	26276.4	30918.8	35289.4	37799.4	37697.1	36517.9	35900.1	31917.9
62.5°	17277.5	17574.1	19081.5	22569.5	28013.3	33969.0	38713.8	39003.3	38085.4	37234.6	32433.3
63°	16486.7	16391.4	17983.6	21489.2	27243.7	33315.9	38727.9	39095.1	38156.0	37361.7	32292.1
65°	12204.4	12490.4	13524.8	16945.7	22671.9	30276.3	37855.9	38505.5	37894.8	36800.4	30728.2
67.5°	6852.4	6838.3	7982.1	11088.8	15868.9	23748.7	34230.3	35603.6	35476.5	33022.9	25471.5
70°	3353.8	3406.8	3876.3	5747.4	9203.6	16384.3	28444.0	29926.8	29972.7	25937.5	17612.9
72.5°	1518.1	1542.8	1878.1	2799.6	4730.7	8723.5	19600.5	21016.2	20754.9	16529.1	9726.1
75°	801.4	854.3	1034.4	1408.6	2280.6	3597.4	10661.7	12031.4	11484.2	7551.4	3579.8
77.5°	593.1	610.8	702.5	896.7	1221.5	1401.5	4600.0	5472.0	5126.1	2732.5	1186.2
80°	434.2	448.4	522.5	635.5	769.6	713.1	1733.4	1987.6	1782.8	928.5	363.6
82.5°	264.8	268.3	381.3	473.1	483.7	398.9	571.9	614.3	642.5	522.5	197.7
85°	95.3	120.0	257.7	342.4	286.0	201.2	240.1	264.8	289.5	331.9	116.5
87.5°	10.6	14.1	123.6	165.9	81.2	74.1	88.3	98.8	105.9	123.6	56.5
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°	5249.6	5249.6	5249.6	5249.6	5249.6	5249.6	5249.6	5249.6	5249.6	5249.6	5249.6
2.5°	5281.4	5295.5	5284.9	5267.3	5263.8	5253.2	5232.0	5232.0	5232.0	5239.0	5232.0
5°	5359.1	5369.7	5344.9	5309.6	5270.8	5221.4	5168.4	5136.7	5133.1	5126.1	5108.4
7.5°	5507.3	5521.5	5465.0	5380.3	5274.3	5154.3	5041.3	4935.4	4886.0	4847.2	4847.2
10°	5722.7	5736.8	5623.8	5472.0	5260.2	5016.6	4748.3	4504.7	4314.1	4225.8	4204.6
12.5°	5980.4	5987.5	5800.4	5535.6	5186.1	4716.5	4144.6	3611.5	3240.9	3071.4	3053.8
15°	6262.8	6213.4	5966.3	5560.3	4974.3	4098.7	3110.2	2457.1	2072.3	1959.3	2001.7
17.5°	6548.8	6457.0	6093.4	5521.5	4497.7	3110.2	2090.0	1676.9	1556.9	1525.1	1525.1
20°	6817.1	6690.0	6185.2	5352.0	3671.6	2142.9	1549.8	1451.0	1429.8	1408.6	1412.1
22.5°	7085.4	6891.2	6266.4	4974.3	2736.0	1532.2	1387.4	1355.7	1327.4	1299.2	1295.6
25°	7346.7	7078.3	6298.1	4275.3	1864.0	1316.8	1267.4	1225.0	1168.5	1136.8	1129.7
27.5°	7618.5	7304.3	6277.0	3392.7	1359.2	1179.1	1129.7	1069.7	1002.6	946.1	946.1
30°	8141.0	7735.0	6202.8	2439.5	1143.8	1037.9	974.4	879.1	804.9	748.4	744.9
32.5°	8854.1	8296.3	5948.6	1715.7	1016.7	914.4	819.0	713.1	635.5	593.1	593.1
35°	9489.6	8861.2	5472.0	1263.9	914.4	794.3	677.8	575.4	515.4	487.2	476.6
37.5°	10456.9	9687.3	4815.4	1027.3	815.5	688.4	568.4	473.1	423.6	402.5	402.5
40°	11907.9	10697.0	4010.5	900.2	720.2	586.0	473.1	398.9	360.1	335.4	335.4
42.5°	13708.3	11932.6	3195.0	808.4	631.9	504.8	395.4	338.9	303.6	286.0	282.4
45°	15974.8	13235.3	2460.7	723.7	561.3	430.7	335.4	286.0	250.7	240.1	243.6
47.5°	18340.2	14382.6	1906.4	649.6	487.2	363.6	286.0	247.1	222.4	208.3	208.3
50°	20359.5	15173.4	1447.4	564.9	430.7	307.1	250.7	222.4	201.2	194.2	190.6
52.5°	22047.0	15402.9	1108.5	490.7	377.7	264.8	222.4	201.2	183.6	173.0	173.0
55°	23483.9	15201.7	868.5	413.1	317.7	229.5	197.7	180.0	158.9	148.3	144.7
57.5°	24324.1	14555.6	663.7	342.4	257.7	190.6	173.0	151.8	127.1	109.4	109.4
60°	24747.7	13616.6	508.4	282.4	197.7	151.8	141.2	113.0	88.3	74.1	70.6
62.5°	24239.4	12370.3	384.8	222.4	148.3	113.0	95.3	81.2	56.5	42.4	42.4
63°	23925.2	12010.2	370.7	211.8	137.7	105.9	88.3	74.1	49.4	38.8	35.3
65°	21810.5	10439.2	303.6	169.5	109.4	74.1	60.0	53.0	35.3	17.7	14.1
67.5°	17319.9	7985.6	240.1	127.1	77.7	53.0	35.3	31.8	10.6	0.0	0.0
70°	11710.2	5157.8	187.1	91.8	53.0	31.8	17.7	14.1	3.5	0.0	0.0
72.5°	6107.5	2644.2	144.7	67.1	31.8	21.2	10.6	3.5	0.0	0.0	0.0
75°	2160.6	900.2	105.9	42.4	21.2	10.6	3.5	0.0	0.0	0.0	0.0
77.5°	653.1	335.4	67.1	31.8	14.1	7.1	0.0	0.0	0.0	0.0	0.0
80°	229.5	123.6	38.8	21.2	10.6	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	113.0	60.0	24.7	17.7	10.6	3.5	0.0	0.0	0.0	0.0	0.0
85°	63.5	38.8	21.2	17.7	10.6	7.1	0.0	0.0	0.0	0.0	0.0
87.5°	45.9	28.2	21.2	17.7	14.1	7.1	3.5	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)