

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: P455572

Luminaire Tested: **GALN-SA6D-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31231 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

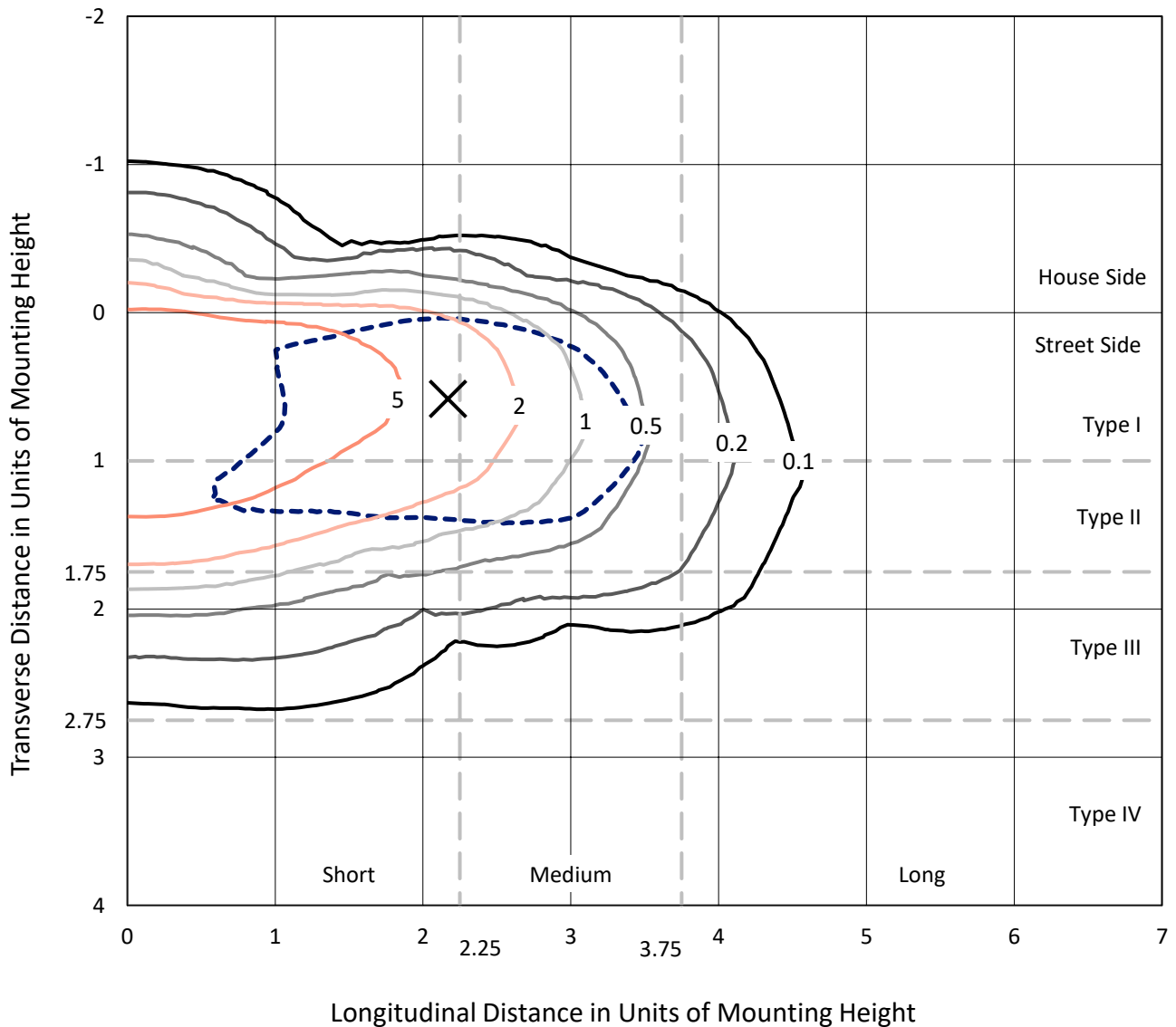
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

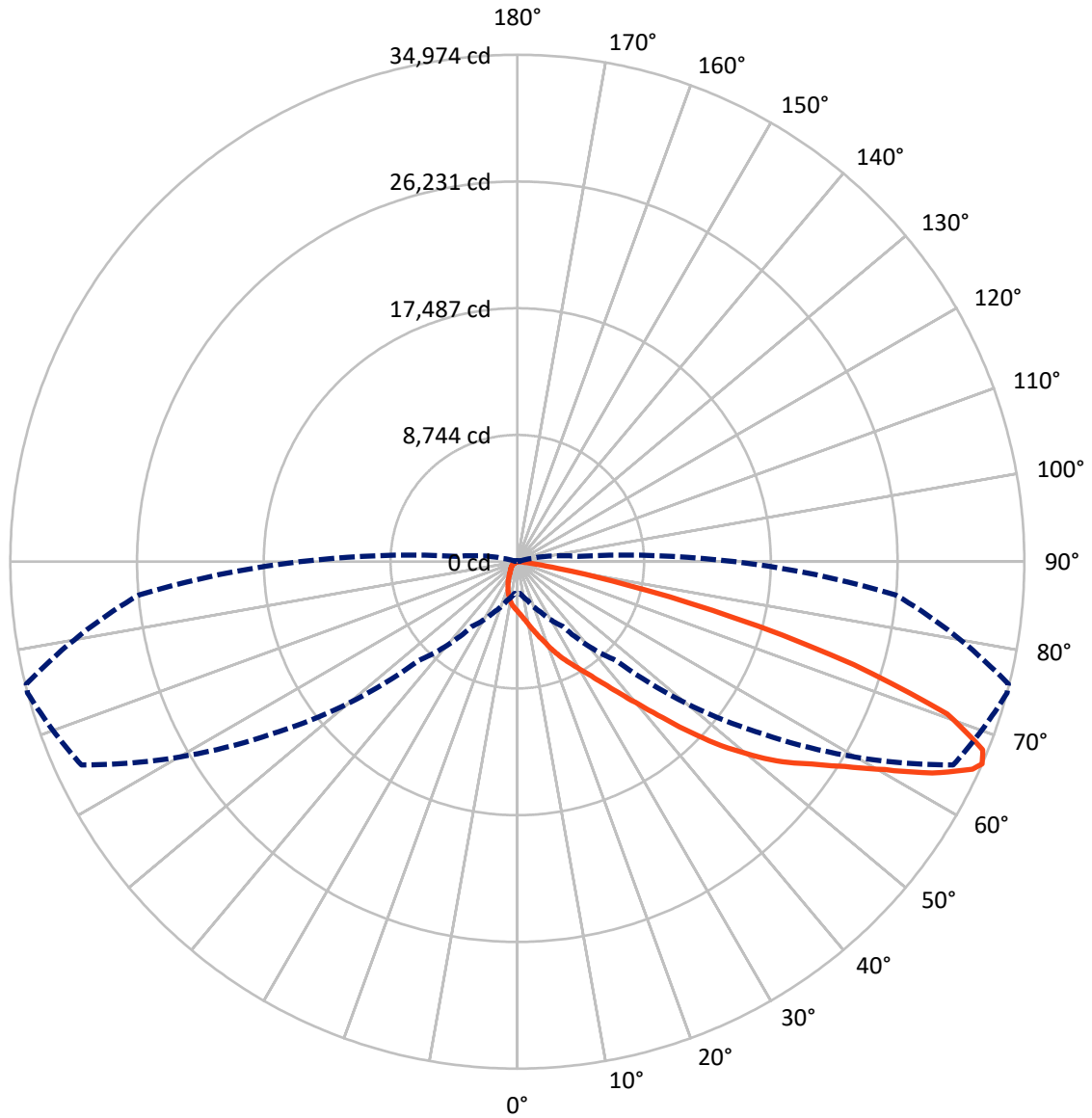
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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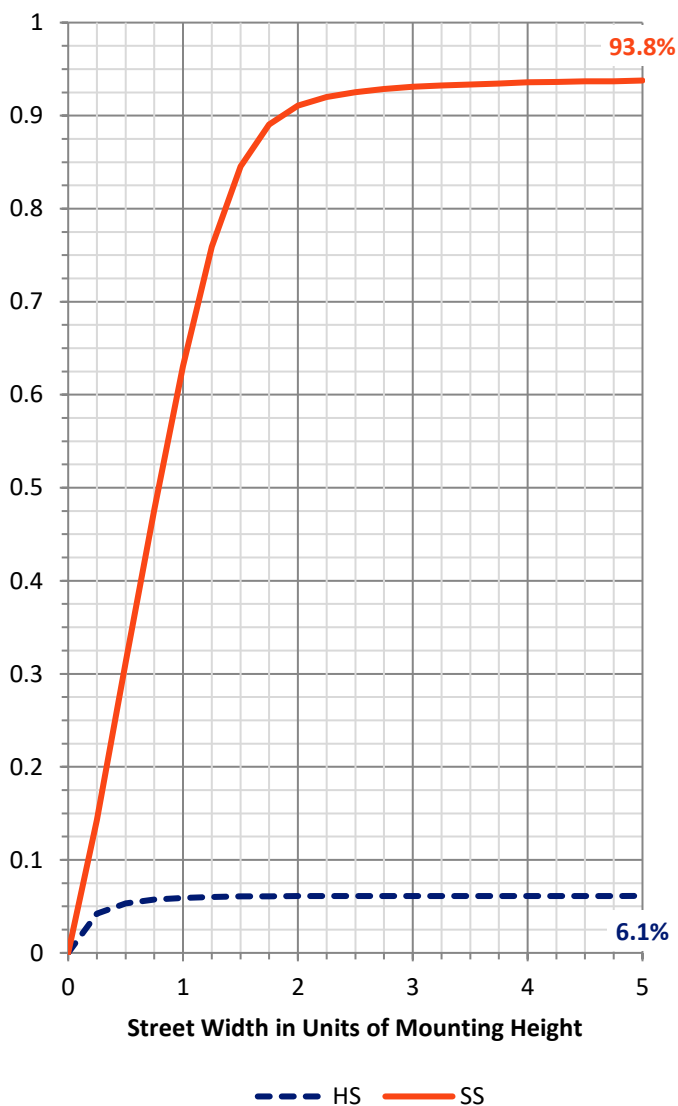
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1928.1	0.0	1928.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	29302.9	0.0	29302.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	31231.0	0.0	31231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.4	1.1
10°-20°	969.5	3.1
20°-30°	1674.1	5.4
30°-40°	3019.8	9.7
40°-50°	5455.3	17.5
50°-60°	8504.9	27.2
60°-70°	8079.3	25.9
70°-80°	3027.9	9.7
80°-90°	170.8	0.5
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°	31231.0	100.0
0°-180°	31231.0	100.0

Coefficient of Utilization



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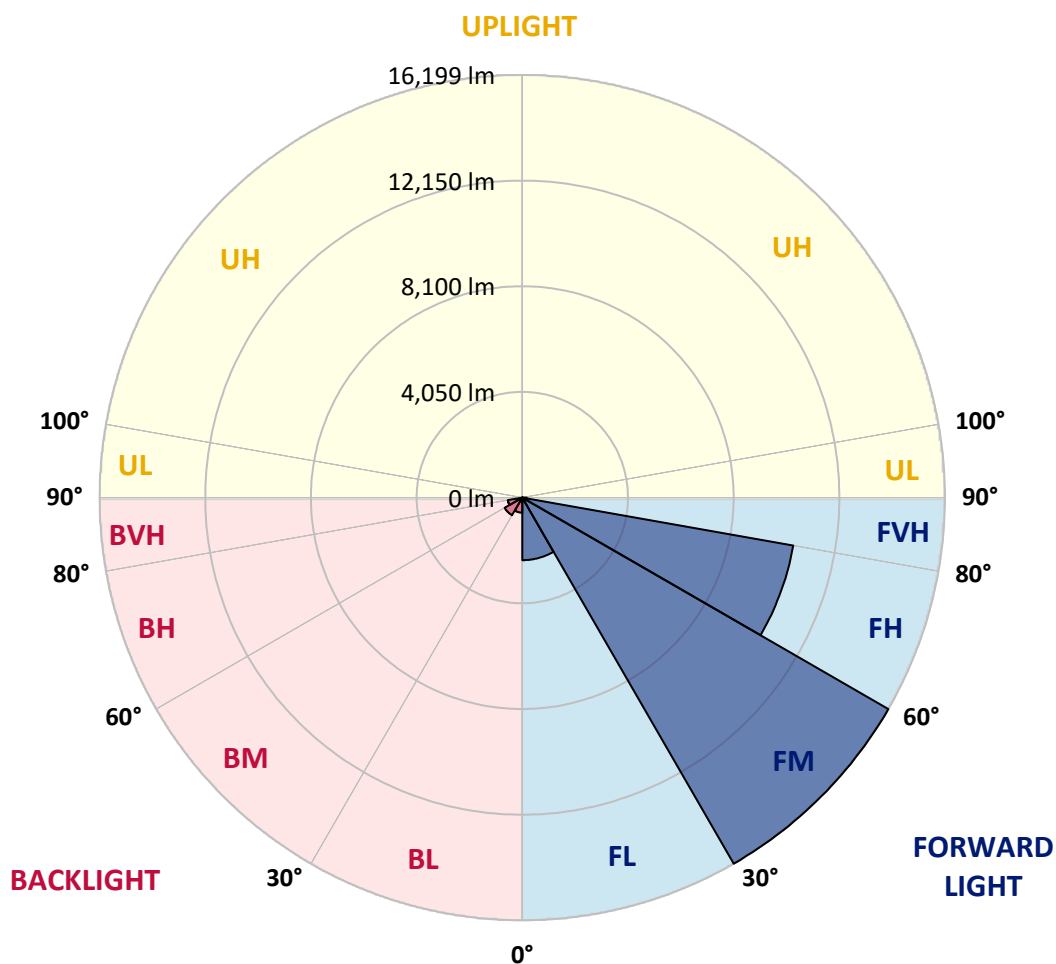
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2397.2	7.7			
FM (30°-60°)	16199.5	51.9			
FH (60°-80°)	10544.2	33.8			G4/12000
FVH (80°-90°)	162.0	0.5			G2/225
BL (0°-30°)	575.8	1.8	B2/1000		
BM (30°-60°)	780.4	2.5	B1/1000		
BH (60°-80°)	563.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3415.4	3415.4	3415.4	3415.4	3415.4	3415.4	3415.4	3415.4	3415.4	3415.4	3415.4
2.5°	4080.5	4029.7	4045.9	4022.8	3969.6	3891.1	3821.9	3722.6	3623.3	3607.1	3496.2
5°	4618.6	4604.7	4586.2	4519.3	4482.3	4362.2	4219.0	4048.2	3842.6	3805.7	3604.8
7.5°	4985.7	4978.8	4988.0	4953.4	4921.1	4812.5	4660.1	4426.9	4108.2	4087.4	3752.6
10°	5105.8	5124.3	5158.9	5214.3	5265.1	5230.5	5115.0	4824.1	4452.3	4392.2	3921.1
12.5°	5036.5	5057.3	5140.4	5288.2	5452.2	5546.9	5500.7	5288.2	4817.1	4768.7	4110.5
15°	4858.7	4884.1	5001.9	5230.5	5523.8	5791.7	5907.1	5754.7	5242.1	5163.5	4339.1
17.5°	4595.5	4632.4	4801.0	5103.5	5505.3	5967.2	6292.8	6242.0	5694.7	5620.8	4588.5
20°	4396.9	4424.6	4567.7	4914.1	5426.8	6064.2	6660.0	6803.1	6253.5	6126.5	4881.8
22.5°	4528.5	4537.7	4586.2	4794.1	5285.9	6089.6	6983.2	7387.4	6847.0	6733.8	5186.6
25°	5172.8	5080.4	5031.9	4985.7	5255.9	6066.5	7276.5	7997.0	7438.2	7318.1	5489.1
27.5°	6188.9	6147.3	5902.5	5574.6	5512.2	6096.5	7470.5	8574.3	7994.7	7865.4	5784.7
30°	7295.0	7223.4	7073.3	6593.0	6110.3	6308.9	7611.4	9135.5	8652.9	8482.0	6054.9
32.5°	8311.1	8357.3	8133.3	7639.1	7080.2	6761.6	7793.8	9747.5	9408.0	9195.5	6369.0
35°	9495.7	9588.1	9244.0	8770.6	8117.1	7579.0	8149.4	10437.9	10366.3	10098.5	6853.9
37.5°	10698.9	10754.3	10544.2	9879.1	9290.2	8618.2	8819.1	11290.0	11546.4	11317.8	7433.6
40°	11710.3	11786.5	11631.8	11040.6	10412.5	9821.3	9791.3	12218.4	12950.4	12714.9	8297.2
42.5°	12483.9	12541.7	12546.3	12128.3	11562.5	11294.7	11031.4	13403.0	14710.1	14437.6	9299.5
45°	13460.8	13543.9	13495.4	13211.4	12788.8	12740.3	12604.0	14834.8	16816.1	16472.1	10599.6
47.5°	14971.0	15026.5	14906.4	14571.5	14142.0	14218.2	14137.4	16439.7	18963.8	18668.2	11945.9
50°	16019.4	16111.8	16282.7	16416.6	16104.9	15823.2	15583.0	17938.5	21002.9	20737.3	13322.2
52.5°	16007.9	16160.3	16700.7	17375.0	18056.2	17970.8	17280.3	19594.2	22949.6	22621.7	14615.4
55°	14929.5	15225.1	16019.4	17215.6	19102.3	20042.2	19728.1	21510.9	24630.7	24409.0	16114.1
57.5°	12703.3	12883.4	13987.3	15659.2	18518.1	21016.7	22563.9	24108.8	26646.7	26542.8	18441.9
60°	8544.3	8625.1	10045.3	12112.2	15765.4	20044.5	24642.3	27251.8	29129.2	29078.4	21159.9
62.5°	4895.7	4930.3	5960.2	7703.7	11218.5	16987.0	24817.8	31129.0	32105.9	32133.6	24305.1
65°	2634.9	2653.4	3484.7	4521.6	6826.2	12107.5	22316.8	33253.6	34512.1	34565.2	26254.2
66°	2274.6	2186.9	2773.4	3854.2	5431.4	9636.6	20735.0	33177.4	34974.0	34916.2	26184.9
67.5°	1729.6	1808.2	2214.6	2962.8	4025.1	6851.6	17118.7	31701.7	34623.0	34442.8	25120.3
70°	1237.8	1270.1	1577.2	2113.0	2741.1	3759.5	10939.0	26330.4	31468.5	31226.0	21885.0
72.5°	799.0	833.6	1117.7	1528.7	1981.4	2052.9	6124.2	19023.8	24261.2	24226.6	16481.3
75°	570.4	602.7	739.0	1094.6	1489.5	1270.1	2948.9	12821.1	15423.7	15319.7	10195.5
77.5°	413.4	429.5	494.2	715.9	1064.6	909.9	1367.1	6847.0	7678.3	8040.9	4505.4
80°	237.9	251.7	344.1	436.5	720.5	621.2	653.5	2748.0	2833.5	2697.2	1408.7
82.5°	117.8	133.9	205.5	297.9	450.3	418.0	300.2	826.7	872.9	849.8	355.6
85°	27.7	34.6	115.5	196.3	219.4	187.1	145.5	242.5	300.2	293.3	136.2
87.5°	2.3	4.6	41.6	34.6	36.9	62.4	50.8	62.4	97.0	90.1	48.5
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°	3415.4	3415.4	3415.4	3415.4	3415.4	3415.4	3415.4	3415.4	3415.4	3415.4	3415.4
2.5°	3445.4	3401.6	3274.6	3149.9	3045.9	2937.4	2838.1	2780.4	2757.3	2731.9	2743.4
5°	3493.9	3387.7	3131.4	2909.7	2692.6	2507.9	2360.1	2265.4	2219.2	2212.3	2200.7
7.5°	3558.6	3376.2	2979.0	2632.6	2348.5	2143.0	1974.4	1838.2	1796.6	1759.7	1729.6
10°	3637.1	3355.4	2789.6	2341.6	2039.1	1780.5	1558.8	1397.1	1314.0	1290.9	1307.0
12.5°	3720.2	3316.1	2591.0	2073.7	1725.0	1394.8	1189.3	1108.5	1085.4	1076.1	1078.4
15°	3803.4	3267.6	2383.2	1815.1	1374.0	1113.1	1018.4	997.6	988.4	983.8	979.1
17.5°	3879.6	3189.1	2149.9	1563.4	1113.1	951.4	916.8	898.3	879.8	872.9	861.4
20°	3969.6	3099.0	1939.8	1281.6	942.2	861.4	819.8	785.2	757.4	739.0	736.7
22.5°	4055.1	2983.6	1720.4	1062.3	859.1	773.6	706.6	669.7	637.4	614.3	621.2
25°	4101.3	2842.7	1524.1	926.0	782.8	685.9	612.0	565.8	531.1	519.6	517.3
27.5°	4101.3	2669.5	1332.5	847.5	713.6	607.3	531.1	487.3	464.2	448.0	450.3
30°	4068.9	2477.9	1154.6	787.5	653.5	538.1	466.5	427.2	408.7	397.2	394.9
32.5°	4043.5	2295.4	1002.2	729.7	591.2	478.0	415.7	385.6	367.2	355.6	355.6
35°	4082.8	2138.4	884.5	672.0	533.4	431.8	376.4	348.7	330.2	321.0	318.7
37.5°	4186.7	1995.2	794.4	609.6	480.3	392.6	348.7	316.4	297.9	286.4	281.7
40°	4443.0	1914.4	727.4	551.9	429.5	360.2	316.4	286.4	263.3	251.7	249.4
42.5°	4854.1	1916.7	662.8	498.8	390.3	332.5	288.7	254.0	228.6	217.1	214.8
45°	5473.0	2004.5	612.0	448.0	355.6	302.5	258.6	221.7	198.6	187.1	187.1
47.5°	6214.3	2175.3	568.1	404.1	323.3	274.8	228.6	191.7	168.6	159.3	159.3
50°	7017.9	2397.0	524.2	357.9	295.6	244.8	196.3	166.3	147.8	140.9	140.9
52.5°	7837.7	2664.9	480.3	321.0	265.6	212.5	168.6	147.8	131.6	127.0	124.7
55°	8913.8	3006.7	434.1	281.7	233.2	182.4	150.1	129.3	110.8	103.9	101.6
57.5°	10569.6	3521.6	383.3	247.1	191.7	152.4	129.3	108.5	87.8	76.2	73.9
60°	12567.1	4149.8	330.2	217.1	154.7	124.7	103.9	83.1	64.7	50.8	48.5
62.5°	14437.6	4549.3	279.4	182.4	122.4	94.7	73.9	62.4	46.2	32.3	30.0
65°	15264.3	4415.3	230.9	147.8	97.0	67.0	48.5	43.9	27.7	13.9	11.5
66°	14989.5	4216.7	212.5	133.9	87.8	57.7	41.6	36.9	20.8	6.9	6.9
67.5°	14179.0	3748.0	184.7	115.5	76.2	46.2	32.3	27.7	11.5	2.3	0.0
70°	12149.1	3032.1	145.5	85.4	55.4	32.3	18.5	13.9	6.9	0.0	0.0
72.5°	9331.8	2258.5	115.5	64.7	39.3	18.5	9.2	4.6	6.9	0.0	0.0
75°	5717.8	1290.9	90.1	48.5	25.4	11.5	6.9	0.0	6.9	2.3	0.0
77.5°	2537.9	579.6	60.0	32.3	18.5	9.2	4.6	0.0	4.6	2.3	0.0
80°	642.0	189.4	34.6	23.1	13.9	6.9	2.3	0.0	4.6	4.6	2.3
82.5°	175.5	69.3	25.4	18.5	11.5	6.9	2.3	0.0	4.6	4.6	4.6
85°	69.3	32.3	23.1	18.5	13.9	6.9	2.3	0.0	4.6	4.6	4.6
87.5°	32.3	23.1	23.1	20.8	16.2	6.9	2.3	0.0	4.6	2.3	4.6
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)