

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: P528799

Luminaire Tested: **GALN-SA3D-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13690 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

Input Watts (W): 184
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



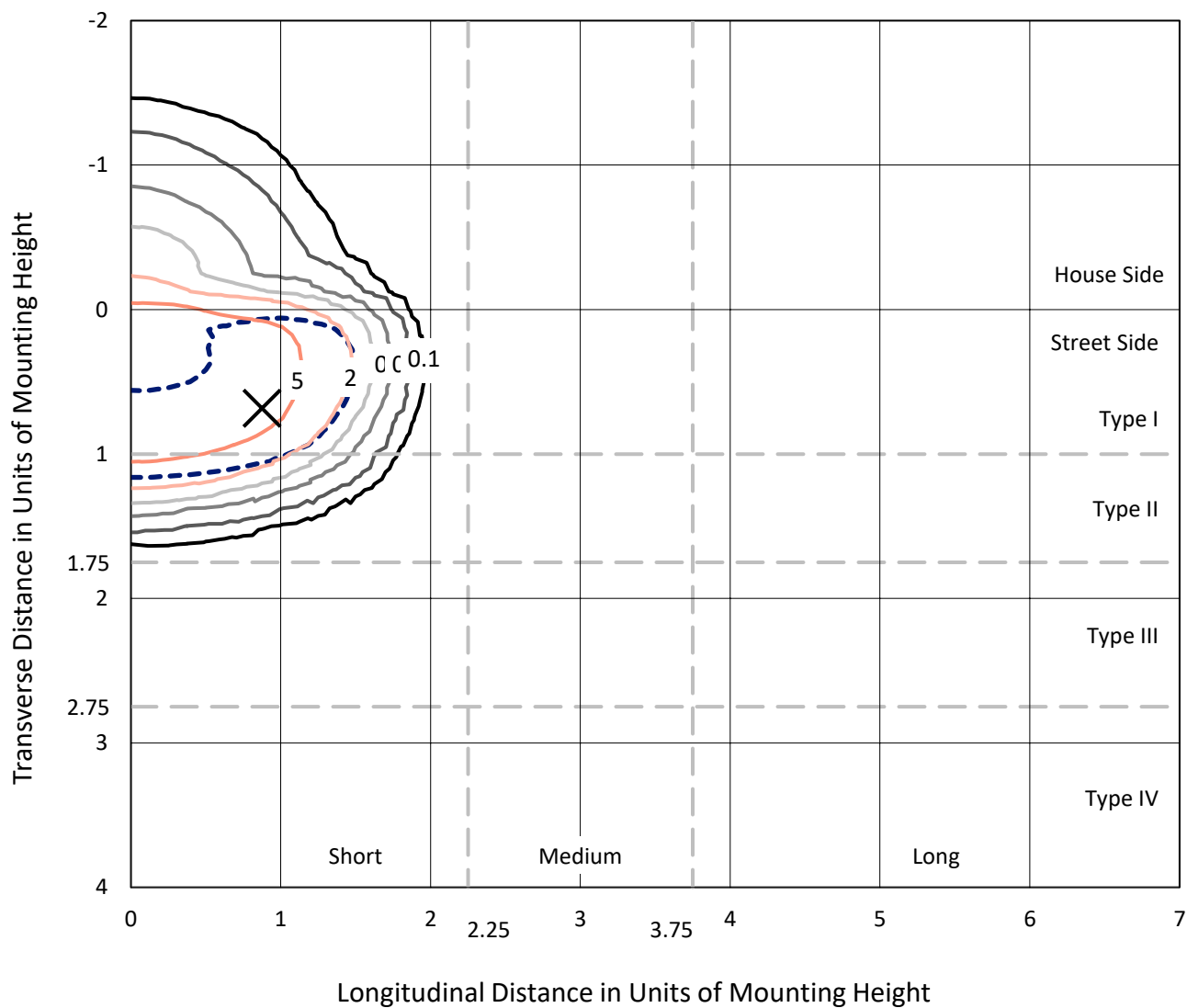
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

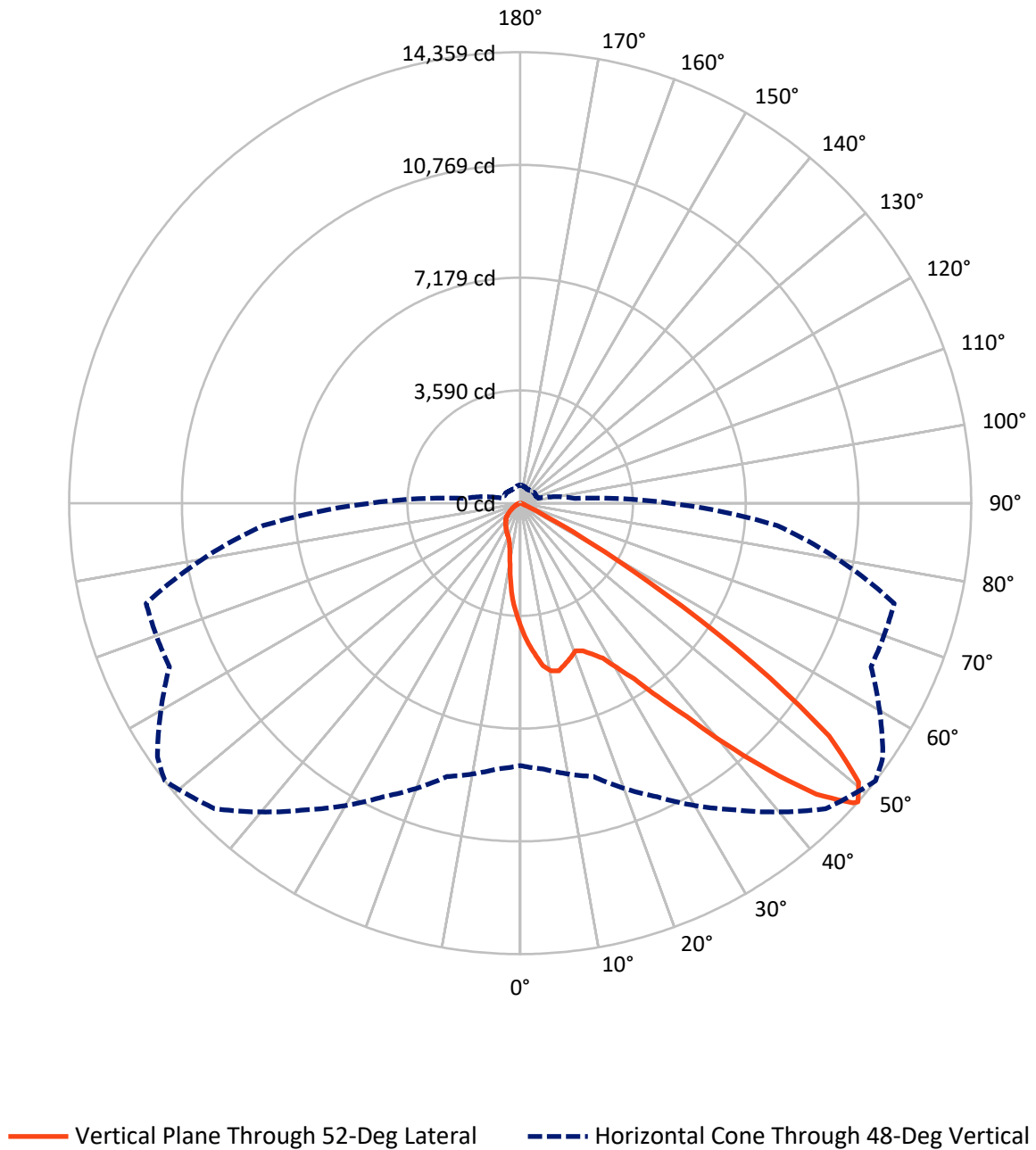


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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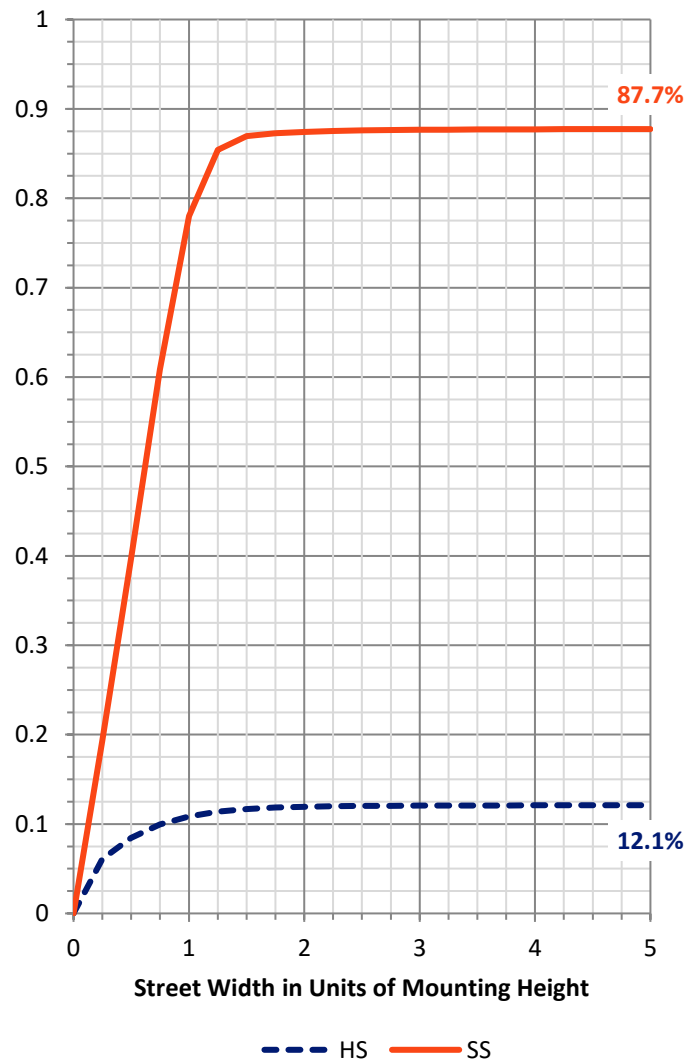
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1666.9	0.0	1666.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12023.1	0.0	12023.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	13690.0	0.0	13690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.9	2.6
10°-20°	945.7	6.9
20°-30°	1614.6	11.8
30°-40°	2973.3	21.7
40°-50°	4617.6	33.7
50°-60°	2779.0	20.3
60°-70°	321.4	2.3
70°-80°	62.2	0.5
80°-90°	14.4	0.1
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°	13690.0	100.0
0°-180°	13690.0	100.0

Coefficient of Utilization



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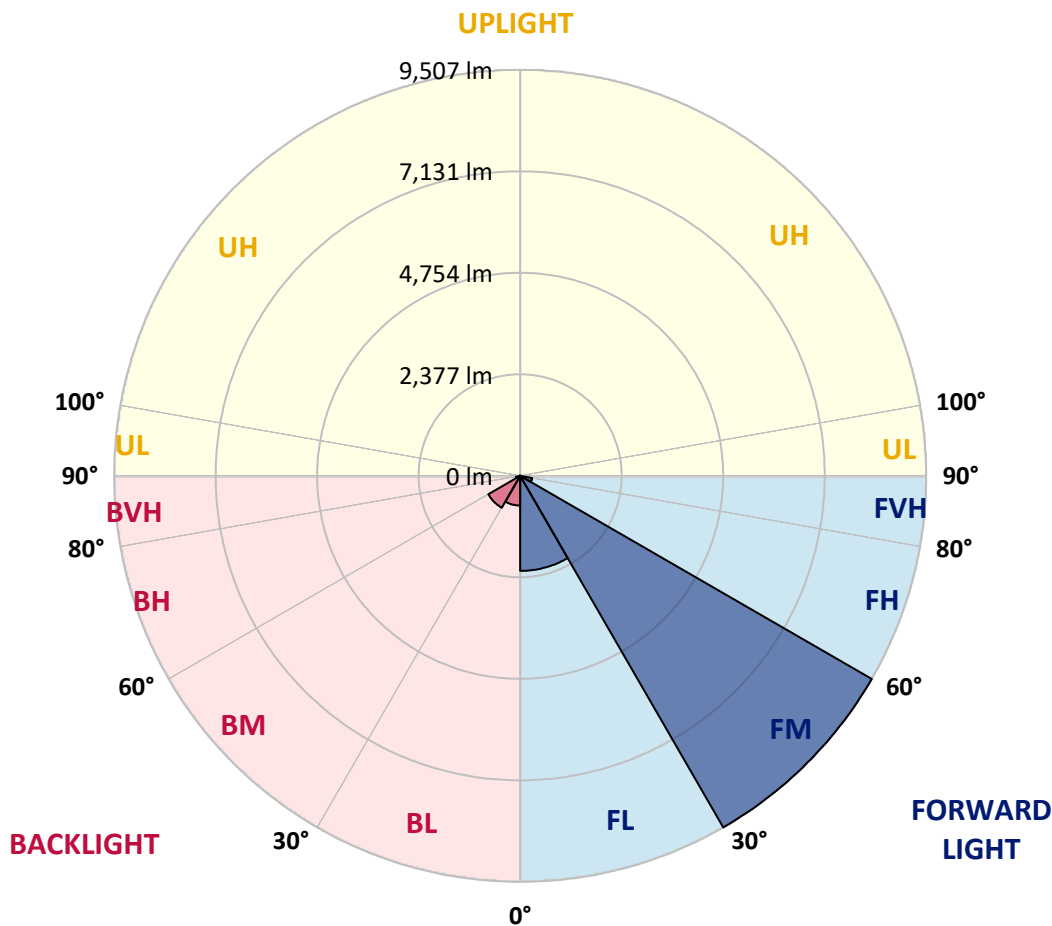
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2225.8	16.3			
FM	(30°-60°)	9507.4	69.4			
FH	(60°-80°)	283.0	2.1			G0/660
FVH	(80°-90°)	6.9	0.1			G0/10
BL	(0°-30°)	696.3	5.1	B2/1000		
BM	(30°-60°)	862.4	6.3	B1/1000		
BH	(60°-80°)	100.6	0.7	B0/110		G0/110
BVH	(80°-90°)	7.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4
2.5°	4791.6	4681.9	4691.8	4620.0	4578.1	4510.2	4418.4	4400.5	4300.7	4165.0	4027.3
5°	5222.7	5196.8	5230.7	5126.9	5130.9	5019.1	4803.6	4807.6	4578.1	4356.6	4143.0
7.5°	5250.6	5190.8	5224.7	5316.5	5370.4	5350.4	5228.7	5122.9	4905.4	4580.1	4268.8
10°	4701.8	4815.6	4851.5	5003.2	5218.7	5446.2	5432.2	5438.2	5256.6	4831.5	4376.5
12.5°	4372.5	4296.7	4418.4	4510.2	4835.5	5276.6	5478.1	5522.1	5536.0	5075.0	4484.3
15°	4222.9	4222.9	4242.8	4268.8	4504.3	4911.4	5322.5	5450.2	5751.6	5394.3	4653.9
17.5°	4316.7	4312.7	4340.6	4286.7	4374.5	4687.9	5178.8	5324.5	5993.0	5707.6	4787.6
20°	4602.0	4616.0	4598.0	4442.4	4448.4	4683.9	5019.1	5248.6	6156.7	5979.1	4965.3
22.5°	4999.2	5007.2	4905.4	4735.8	4685.9	4801.6	5110.9	5286.6	6288.4	6304.4	5019.1
25°	5458.2	5426.3	5406.3	5166.8	5015.1	5114.9	5318.5	5420.3	6370.2	6583.8	5172.8
27.5°	6094.8	6030.9	5909.2	5695.7	5583.9	5442.2	5587.9	5755.5	6603.7	6974.9	5340.4
30°	7034.8	6978.9	6741.4	6466.0	6172.6	6032.9	6078.8	6170.6	7024.8	7427.9	5562.0
32.5°	8449.7	8332.0	7988.7	7463.8	7064.7	6679.5	6667.6	6765.4	7402.0	8054.6	5825.4
35°	10008.3	9972.4	9467.5	8926.7	8154.4	7559.6	7569.6	7621.5	8124.4	8876.8	6170.6
37.5°	11044.1	11241.7	10920.4	10339.6	9691.0	8840.9	8625.3	8643.3	9116.3	9850.7	6793.3
40°	11844.4	11676.7	11714.6	11578.9	11135.9	10557.2	10080.2	9986.4	10263.8	10928.4	7412.0
42.5°	11495.1	11503.1	11736.6	12057.9	12167.7	12125.8	11638.8	11461.2	11245.7	11810.4	8000.7
45°	10509.3	10714.8	11018.2	11868.3	12614.7	13315.2	13219.4	12924.0	11924.2	12508.9	8340.0
47.5°	8936.7	8928.7	9425.6	10531.2	12189.6	13830.1	14265.1	14057.6	12405.2	12431.1	8270.1
48°	8355.9	8499.6	9012.5	10313.7	11920.2	13754.2	14358.9	14097.5	12323.3	12327.3	8210.2
50°	6176.6	6150.7	6789.3	8385.9	10647.0	12924.0	13963.8	14167.3	12321.3	11802.5	7791.1
52.5°	3262.9	3374.7	3839.7	5272.6	7527.7	10577.1	12317.3	12634.7	11886.3	10944.3	7188.4
55°	1387.0	1253.3	1610.5	2380.8	4234.8	7066.7	9036.4	9742.9	10050.3	9685.0	6288.4
57.5°	494.9	540.8	622.7	896.1	1780.1	3867.6	5388.3	5937.2	6962.9	7106.6	4284.7
60°	317.3	323.3	349.2	411.1	668.6	1490.8	2556.5	2993.5	3458.5	3570.3	1999.7
62.5°	245.5	247.5	259.4	269.4	317.3	578.7	959.9	1137.5	1181.4	1015.8	524.9
65°	205.6	207.6	211.5	211.5	225.5	271.4	335.3	369.2	359.2	355.2	297.4
67.5°	157.7	161.7	169.6	169.6	177.6	165.6	185.6	197.6	223.5	271.4	253.5
70°	123.7	125.7	131.7	135.7	135.7	119.7	133.7	145.7	163.6	201.6	199.6
72.5°	95.8	99.8	103.8	103.8	97.8	81.8	95.8	105.8	117.7	139.7	135.7
75°	73.8	73.8	75.8	61.9	47.9	41.9	57.9	69.8	87.8	91.8	75.8
77.5°	20.0	22.0	20.0	18.0	20.0	29.9	37.9	43.9	55.9	55.9	49.9
80°	0.0	2.0	6.0	12.0	20.0	27.9	33.9	37.9	43.9	47.9	45.9
82.5°	0.0	2.0	6.0	12.0	18.0	22.0	29.9	31.9	35.9	41.9	41.9
85°	0.0	2.0	4.0	8.0	12.0	14.0	14.0	12.0	12.0	10.0	8.0
87.5°	0.0	0.0	2.0	4.0	4.0	6.0	6.0	6.0	6.0	6.0	6.0
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°	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4
2.5°	3973.4	3911.5	3817.7	3670.1	3528.4	3436.6	3348.8	3251.0	3197.1	3193.1	3163.2
5°	4021.3	3881.6	3658.1	3404.6	3133.2	2899.7	2664.2	2510.6	2372.9	2297.0	2283.1
7.5°	4047.2	3865.6	3504.4	3079.3	2616.3	2235.2	1971.7	1778.2	1702.3	1646.4	1644.4
10°	4101.1	3837.7	3274.9	2648.3	2075.5	1690.3	1508.7	1420.9	1379.0	1363.1	1339.1
12.5°	4141.0	3785.8	3039.4	2205.2	1640.5	1401.0	1321.1	1301.2	1303.2	1311.2	1301.2
15°	4196.9	3739.9	2722.1	1810.1	1377.0	1261.3	1261.3	1265.3	1293.2	1297.2	1295.2
17.5°	4192.9	3650.1	2394.8	1490.8	1217.4	1201.4	1207.4	1245.3	1263.3	1269.3	1255.3
20°	4240.8	3566.3	2057.5	1273.2	1127.6	1151.5	1191.4	1201.4	1223.4	1227.3	1211.4
22.5°	4226.9	3356.7	1744.2	1101.6	1059.7	1105.6	1145.5	1157.5	1151.5	1139.5	1137.5
25°	4200.9	3177.1	1456.8	987.9	1009.8	1059.7	1097.6	1075.7	1063.7	1065.7	1067.7
27.5°	4155.0	2949.6	1219.4	908.0	942.0	1015.8	1013.8	1005.8	1017.8	1007.8	1017.8
30°	4147.0	2722.1	1023.8	836.2	892.1	946.0	949.9	963.9	977.9	959.9	977.9
32.5°	4159.0	2472.6	884.1	792.3	862.1	864.1	908.0	922.0	912.0	872.1	876.1
35°	4250.8	2281.1	782.3	768.3	814.2	816.2	858.1	840.2	796.3	772.3	786.3
37.5°	4444.4	2121.4	734.4	746.4	750.4	776.3	778.3	742.4	746.4	744.4	752.4
40°	4691.8	1999.7	700.5	726.4	722.4	740.4	668.6	688.5	706.5	712.5	716.4
42.5°	4861.5	1911.9	678.5	694.5	686.5	654.6	614.7	634.6	648.6	670.5	674.5
45°	4937.3	1842.0	652.6	638.6	638.6	580.7	564.8	568.8	600.7	624.6	620.7
47.5°	4813.6	1774.2	606.7	564.8	578.7	530.9	512.9	512.9	546.8	576.8	570.8
48°	4765.7	1746.2	608.7	548.8	558.8	522.9	504.9	500.9	538.8	566.8	566.8
50°	4528.2	1642.4	556.8	504.9	485.0	481.0	469.0	473.0	496.9	522.9	522.9
52.5°	4065.2	1418.9	471.0	433.1	397.1	421.1	427.1	419.1	431.1	455.0	453.0
55°	3392.7	1089.6	377.2	359.2	331.3	357.2	369.2	359.2	347.2	365.2	365.2
57.5°	2173.3	586.7	301.3	305.3	277.4	303.3	313.3	289.4	267.4	281.4	279.4
60°	979.9	351.2	247.5	241.5	223.5	253.5	269.4	241.5	211.5	221.5	231.5
62.5°	367.2	249.5	187.6	183.6	179.6	207.6	215.5	193.6	163.6	169.6	171.6
65°	269.4	219.5	149.7	135.7	143.7	163.6	159.7	137.7	117.7	117.7	121.7
67.5°	229.5	191.6	121.7	105.8	105.8	107.8	99.8	87.8	81.8	85.8	89.8
70°	179.6	151.7	95.8	81.8	73.8	65.9	57.9	55.9	49.9	55.9	53.9
72.5°	115.7	101.8	73.8	61.9	55.9	45.9	37.9	35.9	29.9	27.9	27.9
75°	61.9	61.9	57.9	49.9	43.9	35.9	29.9	23.9	16.0	12.0	12.0
77.5°	43.9	47.9	51.9	47.9	39.9	29.9	23.9	16.0	8.0	4.0	4.0
80°	41.9	47.9	51.9	45.9	39.9	29.9	22.0	12.0	6.0	2.0	2.0
82.5°	37.9	43.9	47.9	41.9	35.9	25.9	20.0	12.0	6.0	2.0	2.0
85°	8.0	10.0	12.0	12.0	14.0	18.0	14.0	10.0	4.0	2.0	2.0
87.5°	6.0	6.0	6.0	6.0	6.0	6.0	4.0	4.0	2.0	2.0	2.0
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)