

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: P455081

Luminaire Tested: **GALN-SA6B-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22593 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

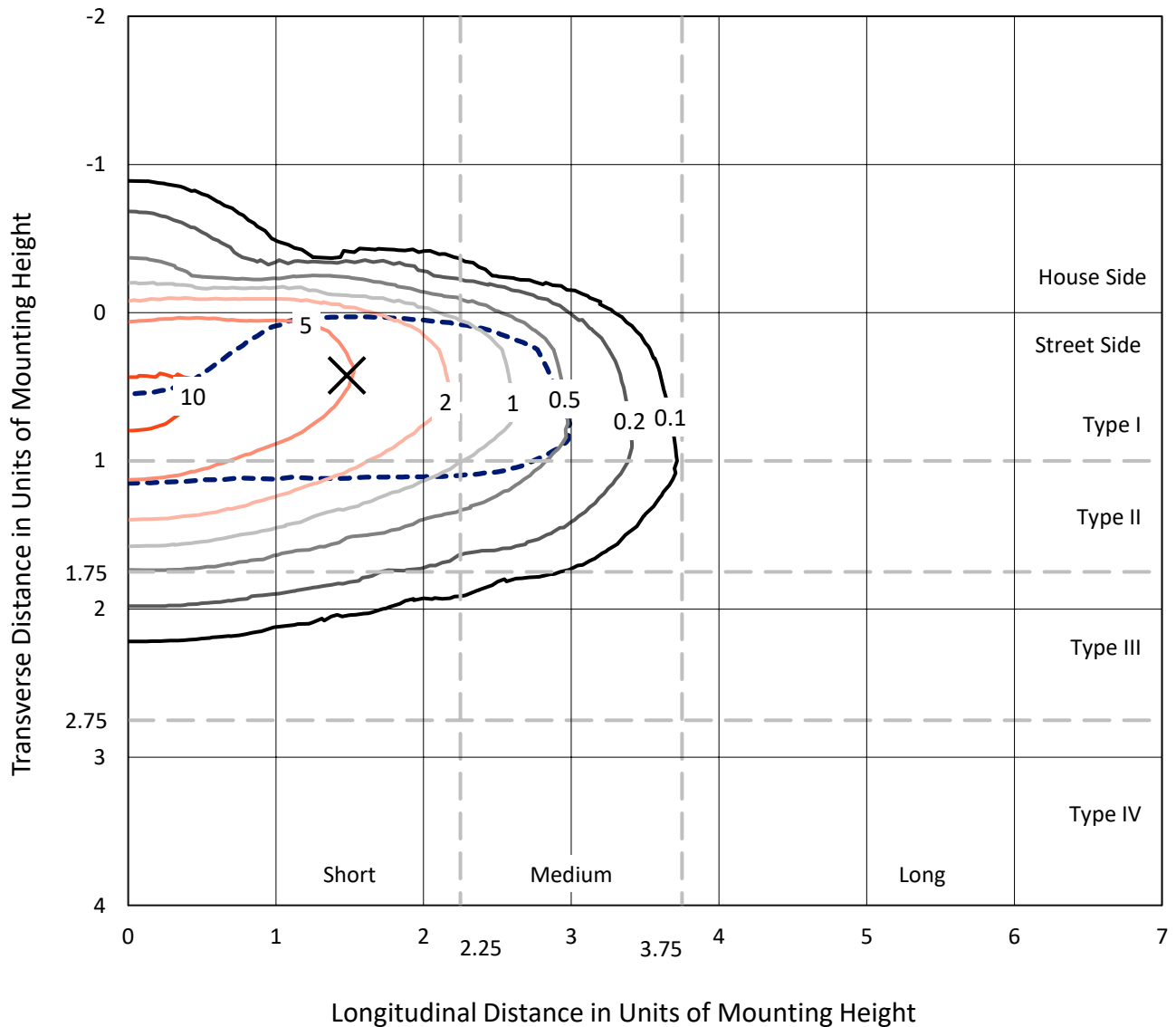
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

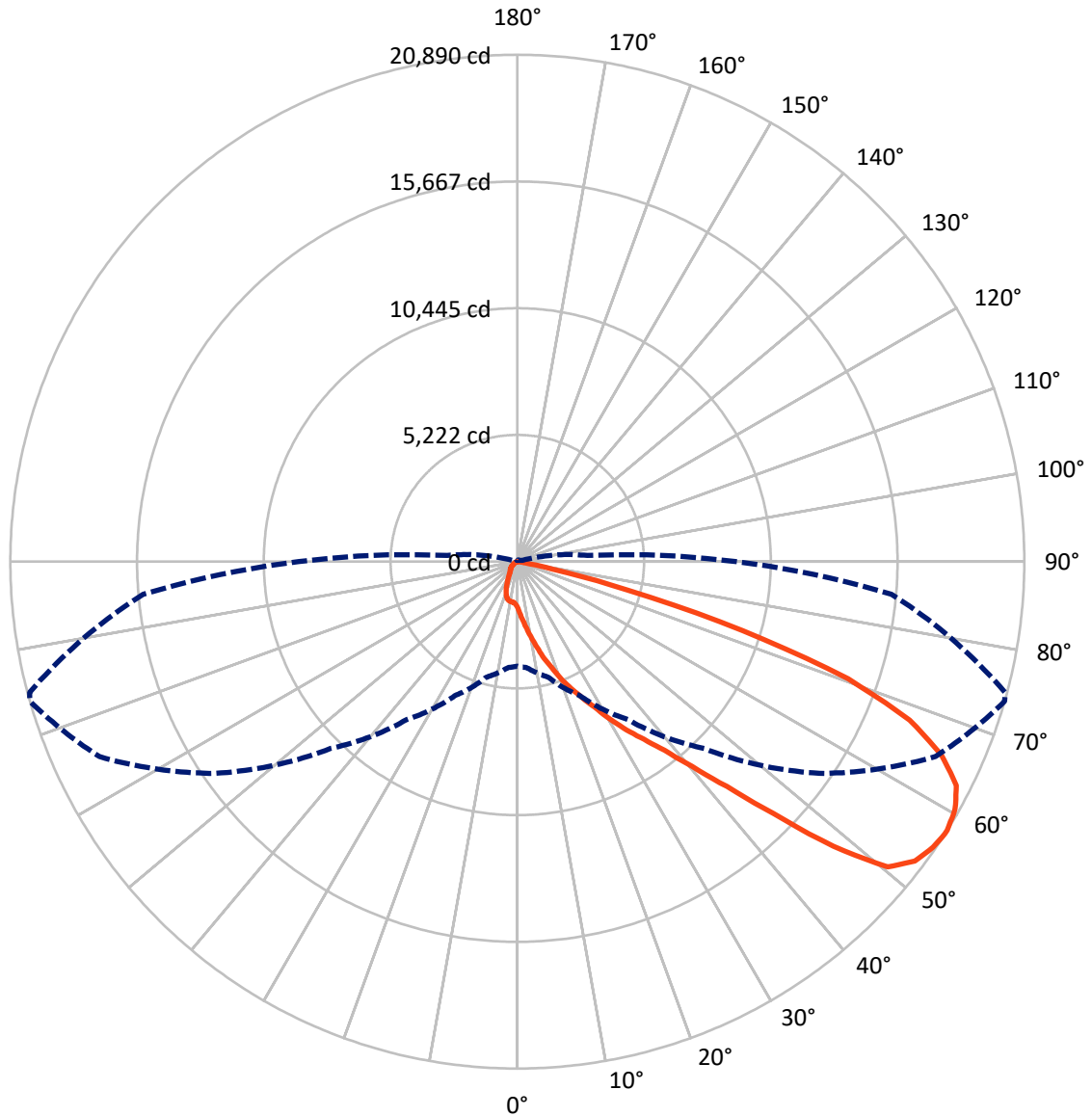
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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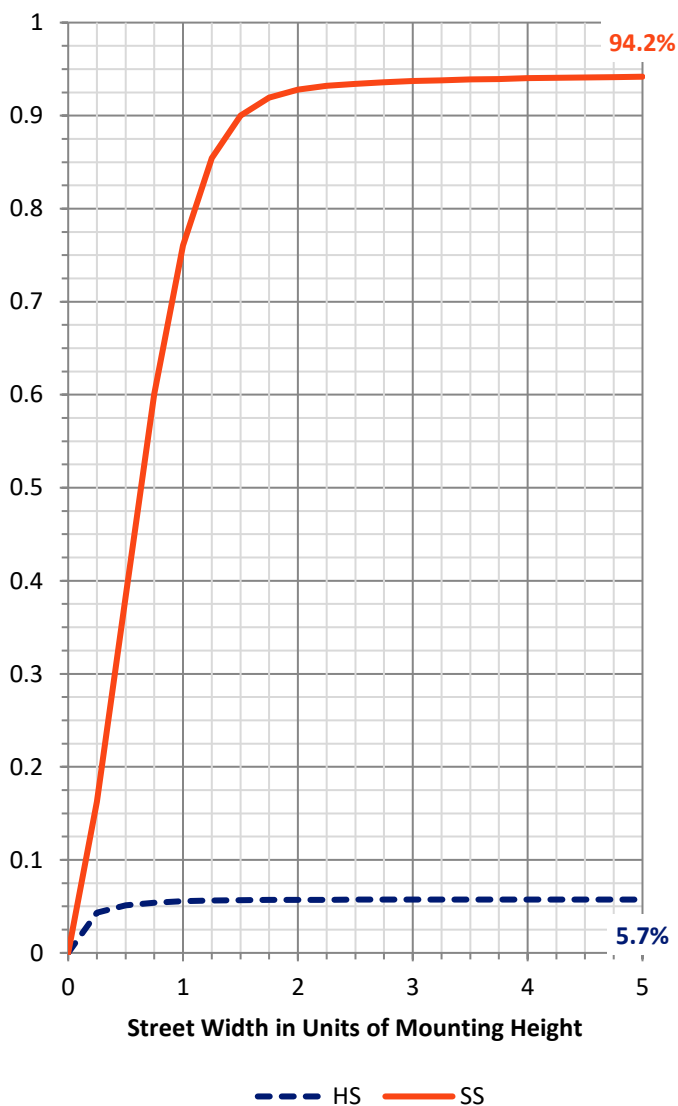
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1303.1	0.0	1303.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	21289.9	0.0	21289.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	22593.0	0.0	22593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.4	1.0
10°-20°	900.2	4.0
20°-30°	1926.2	8.5
30°-40°	3540.4	15.7
40°-50°	5427.4	24.0
50°-60°	5741.5	25.4
60°-70°	3749.3	16.6
70°-80°	1024.5	4.5
80°-90°	55.2	0.2
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°	22593.0	100.0
0°-180°	22593.0	100.0

Coefficient of Utilization



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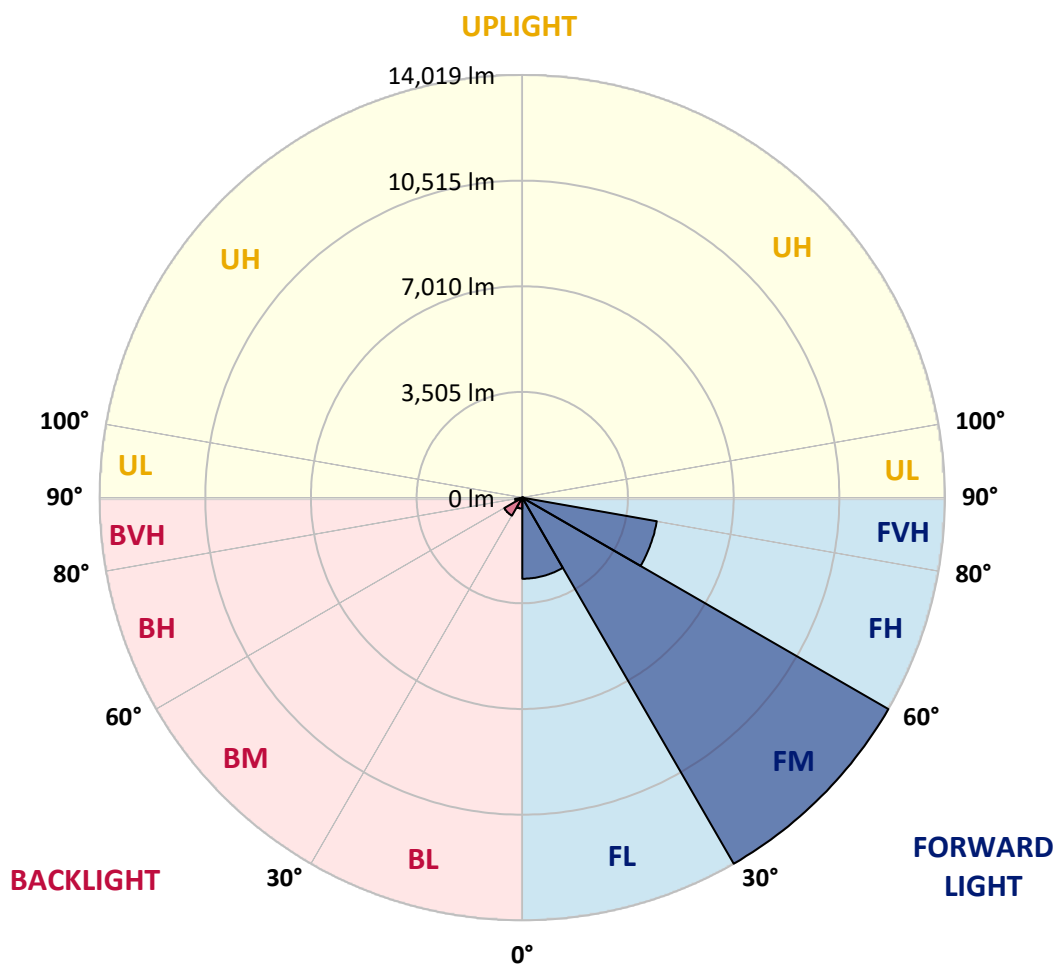
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2690.8	11.9			
FM (30°-60°)	14019.4	62.1			
FH (60°-80°)	4529.1	20.0			G2/5000
FVH (80°-90°)	50.6	0.2			G1/100
BL (0°-30°)	364.0	1.6	B1/500		
BM (30°-60°)	689.9	3.1	B1/1000		
BH (60°-80°)	244.7	1.1	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1
2.5°	2768.8	2743.8	2693.9	2676.8	2603.4	2489.6	2389.7	2255.6	2149.5	2138.6	2010.7
5°	3707.8	3651.7	3628.3	3516.0	3339.7	3174.4	2890.5	2675.2	2427.2	2408.5	2151.1
7.5°	4612.6	4534.6	4511.2	4405.1	4199.2	3938.7	3570.6	3179.0	2785.9	2750.1	2339.8
10°	5267.7	5278.6	5236.5	5166.3	4999.4	4734.2	4280.3	3745.3	3185.3	3140.0	2552.0
12.5°	5737.2	5735.7	5743.5	5741.9	5653.0	5451.8	4974.5	4358.3	3625.2	3536.2	2795.3
15°	6043.0	6047.7	6071.1	6152.2	6161.5	6036.7	5639.0	4944.8	4135.2	4024.5	3058.9
17.5°	6351.8	6384.6	6422.0	6498.5	6567.1	6517.2	6236.4	5556.3	4597.0	4514.3	3341.3
20°	6861.9	6907.1	6885.3	6932.1	6968.0	6972.7	6755.8	6121.0	5157.0	5018.1	3664.2
22.5°	7677.7	7676.2	7620.0	7535.8	7465.6	7462.5	7265.9	6701.2	5665.5	5531.3	3988.6
25°	8708.8	8713.5	8604.3	8364.1	8189.4	7975.7	7749.5	7209.8	6209.9	6044.5	4330.2
27.5°	9891.2	9861.6	9696.2	9365.5	9019.2	8654.2	8328.2	7801.0	6787.0	6649.8	4721.8
30°	10953.5	10942.6	10749.1	10345.1	9889.6	9523.1	9050.4	8541.9	7534.2	7365.8	5160.1
32.5°	11942.4	11958.0	11689.7	11271.7	10831.8	10409.1	9909.9	9250.1	8267.4	8028.7	5637.4
35°	12714.6	12730.2	12452.5	12104.7	11652.3	11301.3	10825.6	10005.1	8991.1	8789.9	6186.5
37.5°	13126.4	13146.7	12986.0	12723.9	12441.6	12265.3	11822.3	10976.9	9870.9	9749.2	6835.4
40°	13204.4	13227.8	13157.6	13087.4	13071.8	13198.1	13068.7	12121.8	11090.7	10900.4	7802.5
42.5°	12970.4	13001.6	13032.8	13188.8	13507.0	13970.3	14421.1	13675.5	12661.5	12405.7	8984.9
45°	12355.8	12352.7	12475.9	12879.9	13592.8	14581.8	15834.3	15620.6	14801.7	14497.5	10655.5
47.5°	11304.4	11288.9	11555.6	12131.2	13241.8	14694.1	16987.1	17982.3	17533.1	17252.3	12451.0
50°	9702.5	9778.9	10198.5	11001.8	12369.8	14354.0	17342.7	19531.3	19774.6	19476.7	13901.6
52.5°	7825.9	7822.8	8481.1	9571.4	11078.3	13605.3	17094.7	19812.0	20503.1	20275.3	14616.1
55°	5791.8	5832.4	6517.2	7616.9	9401.4	12238.8	16285.1	19523.5	20780.7	20620.1	15087.2
57°	4308.4	4380.1	4929.2	6092.9	7941.3	10886.4	15207.3	19007.1	20889.9	20802.6	15478.7
57.5°	4021.4	4024.5	4559.5	5617.1	7513.9	10367.0	14898.4	18791.9	20886.8	20838.4	15542.6
60°	2475.5	2553.5	2923.2	3796.7	5500.1	8091.1	12828.5	17554.9	20724.6	20794.8	15815.6
62.5°	1481.9	1514.6	1754.9	2288.3	3545.6	5905.7	10498.0	15971.6	20301.8	20515.5	15796.9
65°	953.1	960.9	1070.1	1385.2	2216.6	3991.7	8089.5	13879.8	19208.4	19601.5	15179.2
67.5°	736.3	748.7	792.4	909.4	1285.3	2486.4	5721.6	11647.6	17439.5	17946.4	13681.7
70°	653.6	659.8	675.4	712.9	850.1	1403.9	3559.6	9098.8	14461.6	14605.2	10707.0
72.5°	533.5	550.6	599.0	611.5	673.9	876.7	1981.0	6106.9	9716.5	9752.4	5989.9
75°	413.4	416.5	488.2	524.1	567.8	603.7	884.5	3079.2	4667.2	4417.6	2308.6
77.5°	308.9	322.9	355.7	400.9	463.3	432.1	396.2	1160.6	1449.1	1422.6	670.7
80°	198.1	205.9	248.0	301.1	360.3	282.3	223.1	340.1	318.2	327.6	160.7
82.5°	99.8	101.4	159.1	244.9	229.3	141.9	140.4	138.8	118.6	117.0	74.9
85°	10.9	23.4	103.0	140.4	103.0	46.8	65.5	64.0	62.4	64.0	43.7
87.5°	1.6	1.6	17.2	20.3	14.0	15.6	18.7	20.3	25.0	23.4	18.7
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°	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1
2.5°	1948.3	1885.9	1770.5	1659.7	1577.0	1524.0	1455.4	1430.4	1394.5	1389.9	1372.7
5°	2032.5	1914.0	1712.7	1553.6	1425.7	1329.0	1244.8	1174.6	1118.4	1106.0	1112.2
7.5°	2152.6	1976.4	1695.6	1478.8	1300.9	1135.6	1001.4	918.8	859.5	837.7	840.8
10°	2288.3	2059.0	1692.5	1399.2	1127.8	925.0	778.4	705.1	670.7	658.3	644.2
12.5°	2449.0	2154.2	1684.7	1276.0	937.5	737.8	633.3	589.6	556.9	547.5	547.5
15°	2630.0	2255.6	1647.2	1123.1	761.2	609.9	539.7	505.4	494.5	485.1	485.1
17.5°	2818.7	2355.4	1569.2	934.4	631.8	522.6	478.9	458.6	443.0	432.1	432.1
20°	3034.0	2453.7	1444.4	767.5	533.5	466.4	432.1	408.7	396.2	386.9	383.7
22.5°	3238.3	2533.2	1285.3	630.2	464.8	419.6	388.4	363.5	351.0	346.3	346.3
25°	3450.5	2581.6	1093.5	521.0	424.3	380.6	346.3	326.0	315.1	312.0	310.4
27.5°	3656.4	2609.7	925.0	455.5	386.9	344.7	312.0	296.4	285.5	282.3	283.9
30°	3905.9	2614.4	761.2	408.7	354.1	310.4	280.8	266.7	260.5	257.4	255.8
32.5°	4158.6	2608.1	639.6	380.6	322.9	280.8	255.8	244.9	240.2	235.5	235.5
35°	4442.5	2575.4	544.4	352.5	293.3	255.8	234.0	224.6	218.4	213.7	212.1
37.5°	4795.1	2558.2	489.8	321.3	266.7	232.4	212.1	202.8	198.1	191.9	190.3
40°	5350.4	2634.6	472.6	293.3	240.2	210.6	191.9	180.9	174.7	168.5	166.9
42.5°	6043.0	2768.8	444.6	265.2	216.8	190.3	171.6	159.1	148.2	140.4	137.3
45°	6939.9	2945.1	400.9	235.5	196.5	168.5	151.3	135.7	121.7	115.4	113.9
47.5°	7880.5	3115.1	361.9	212.1	174.7	149.7	131.0	113.9	101.4	96.7	95.2
50°	8457.7	3149.4	336.9	185.6	152.9	129.5	110.8	95.2	87.4	82.7	82.7
52.5°	8721.3	3094.8	302.6	162.2	132.6	113.9	95.2	82.7	78.0	74.9	73.3
55°	8905.4	3010.6	257.4	140.4	113.9	96.7	84.2	74.9	68.6	65.5	64.0
57°	9013.0	2896.7	223.1	123.2	98.3	84.2	74.9	67.1	60.8	54.6	54.6
57.5°	9017.7	2853.0	213.7	121.7	93.6	81.1	73.3	65.5	57.7	51.5	49.9
60°	8878.8	2553.5	171.6	103.0	74.9	68.6	60.8	51.5	40.6	34.3	32.8
62.5°	8432.7	2172.9	141.9	87.4	60.8	53.0	43.7	39.0	28.1	20.3	20.3
65°	7757.3	1762.7	121.7	70.2	49.9	39.0	29.6	28.1	17.2	9.4	7.8
67.5°	6780.8	1372.7	103.0	57.7	42.1	28.1	20.3	18.7	9.4	3.1	0.0
70°	5166.3	935.9	85.8	46.8	31.2	20.3	14.0	10.9	6.2	1.6	0.0
72.5°	2977.8	514.8	71.8	35.9	23.4	15.6	10.9	6.2	6.2	0.0	0.0
75°	1063.8	221.5	54.6	26.5	18.7	12.5	7.8	3.1	4.7	1.6	0.0
77.5°	338.5	118.6	35.9	20.3	15.6	9.4	6.2	3.1	3.1	1.6	0.0
80°	99.8	62.4	21.8	17.2	10.9	7.8	4.7	1.6	3.1	1.6	0.0
82.5°	54.6	31.2	17.2	12.5	10.9	6.2	4.7	1.6	1.6	1.6	0.0
85°	28.1	18.7	14.0	12.5	10.9	6.2	4.7	1.6	0.0	1.6	1.6
87.5°	15.6	14.0	14.0	12.5	10.9	7.8	4.7	1.6	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)