

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: P382999

Luminaire Tested: **GLEON-SA3C-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20117.7 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

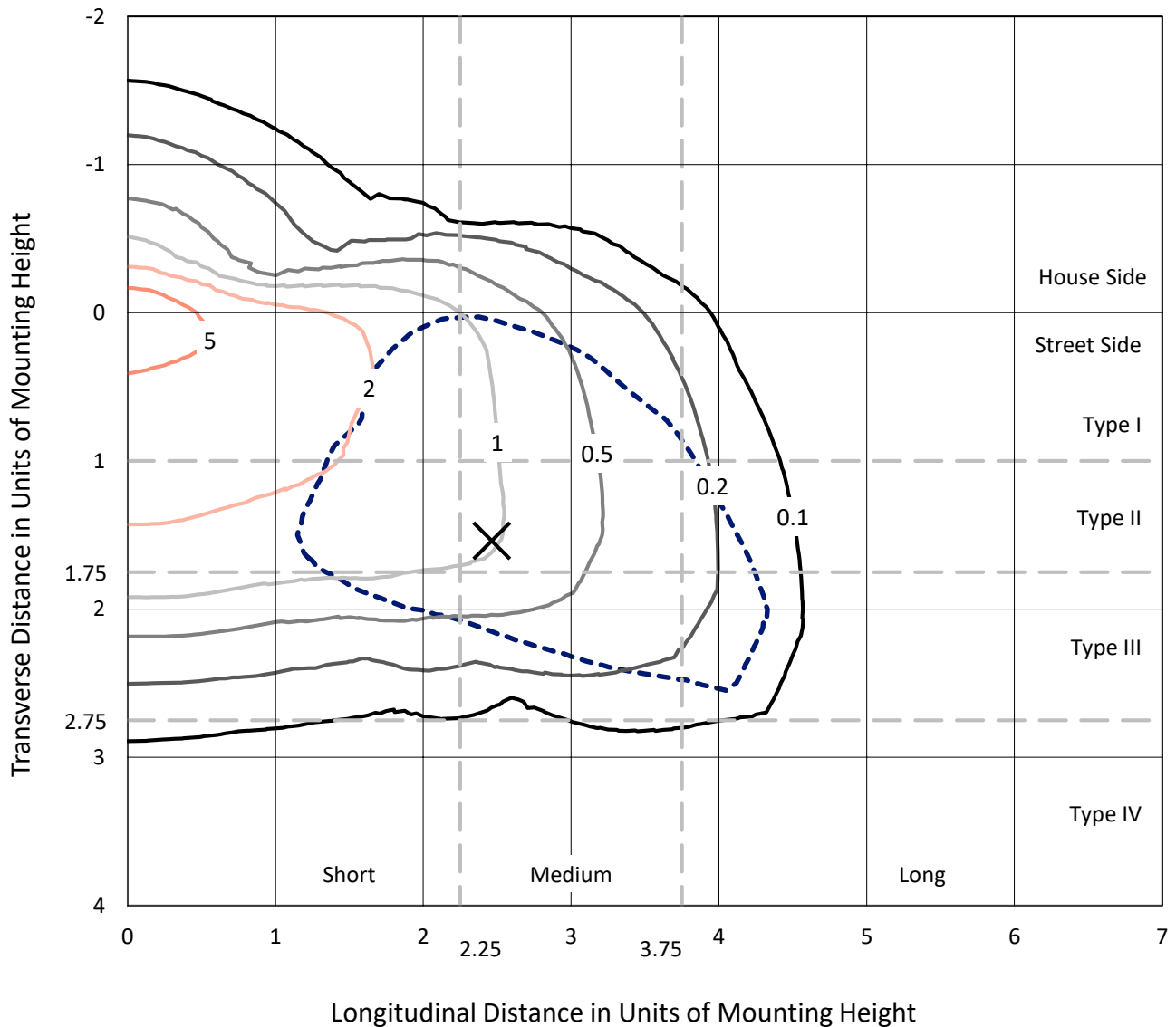
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

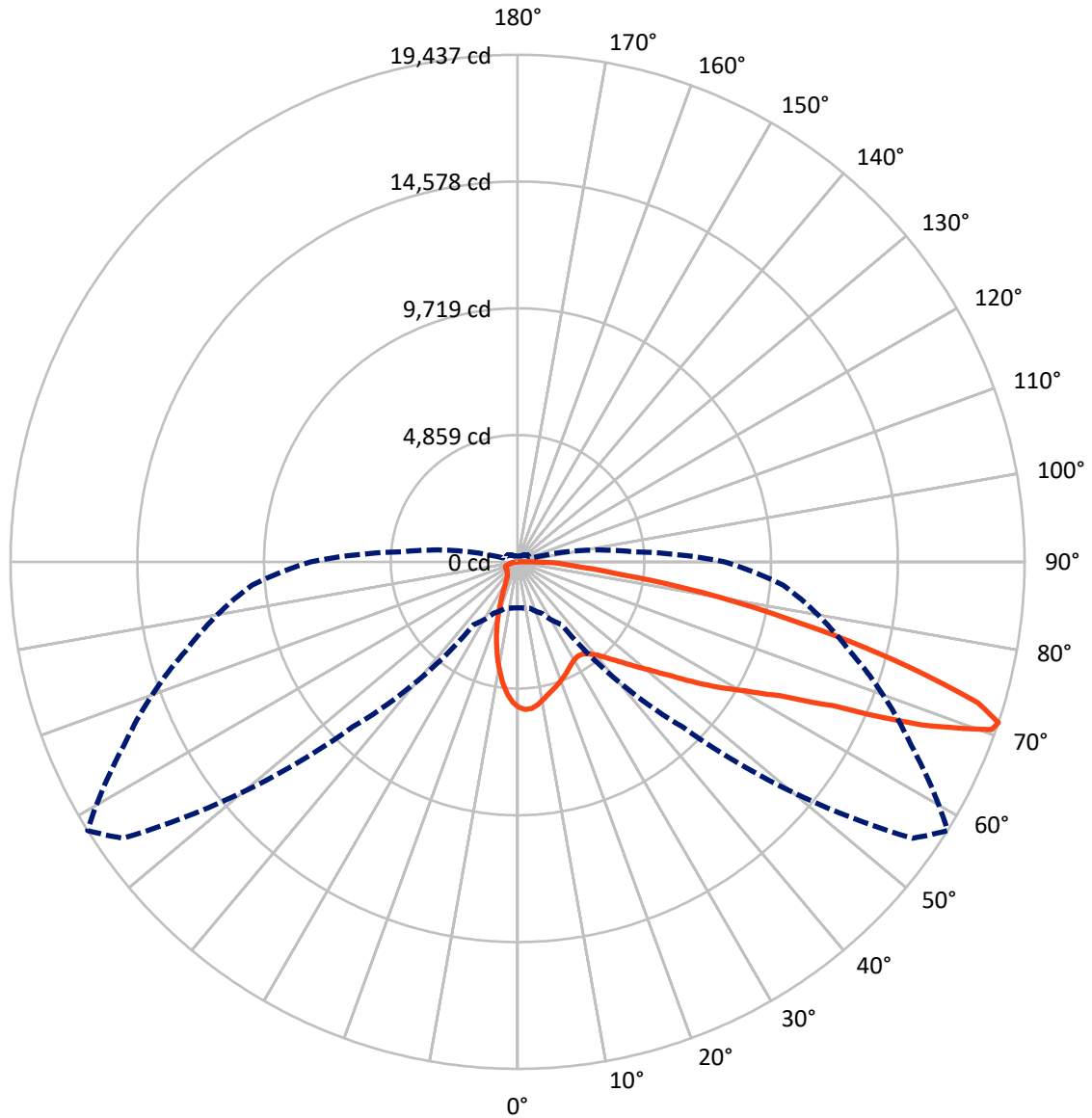
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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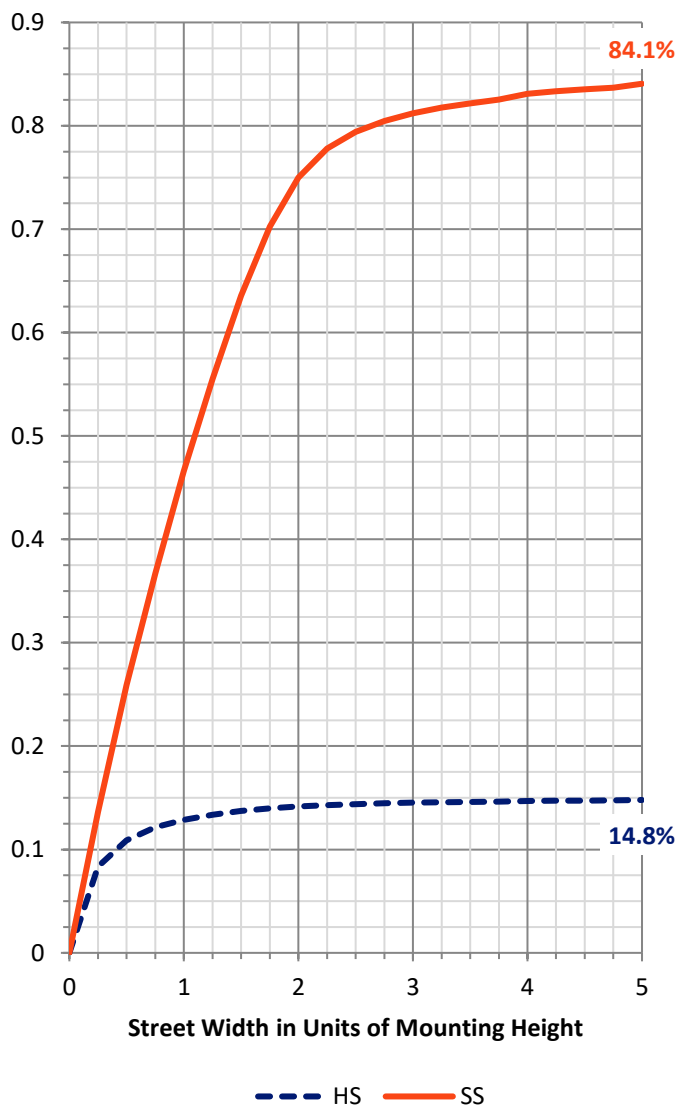
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3007.7	0.0	3007.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	17110.0	0.0	17110.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	20117.7	0.0	20117.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.9	2.4
10°-20°	1069.3	5.3
20°-30°	1358.9	6.8
30°-40°	1731.0	8.6
40°-50°	2454.6	12.2
50°-60°	3798.6	18.9
60°-70°	5171.3	25.7
70°-80°	3449.9	17.1
80°-90°	603.2	3.0
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°	20117.7	100.0
0°-180°	20117.7	100.0

Coefficient of Utilization

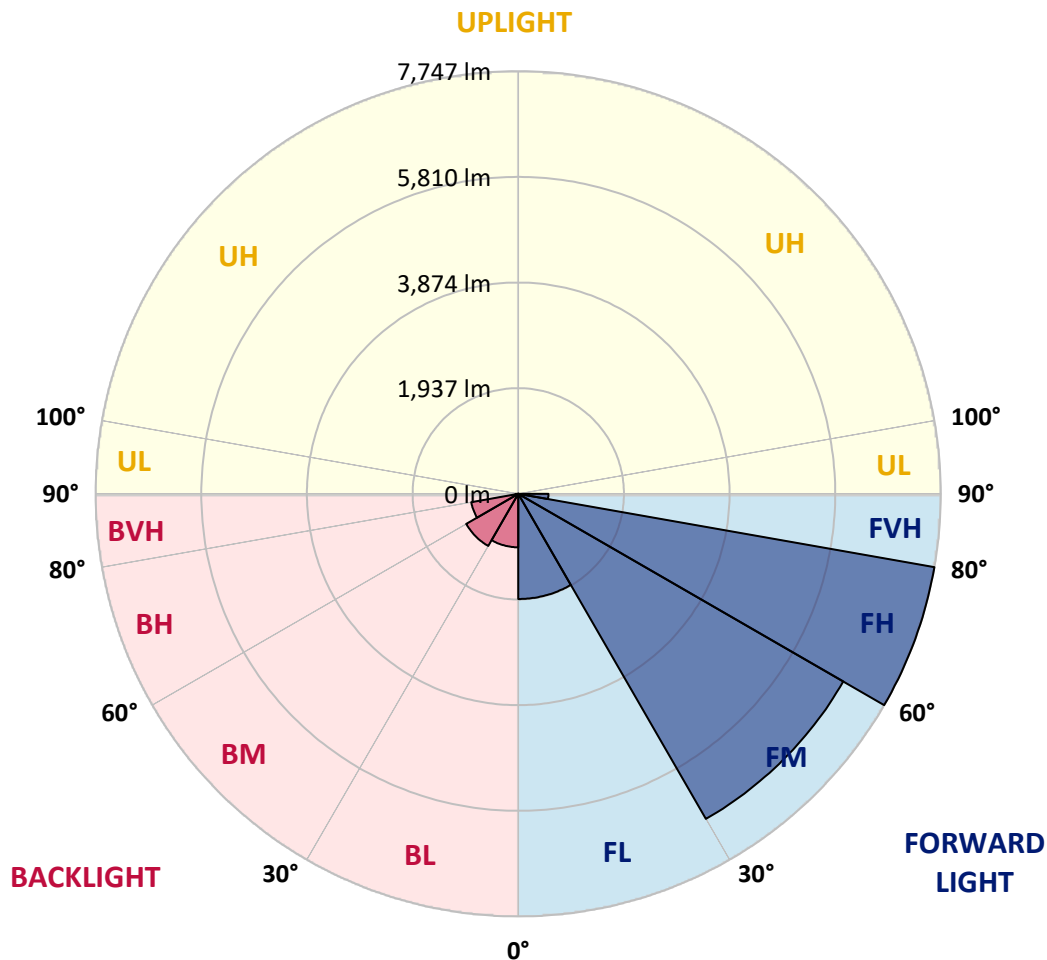


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1928.6	9.6			
FM (30°-60°)	6881.2	34.2			
FH (60°-80°)	7747.1	38.5			G4/12000
FVH (80°-90°)	553.0	2.7			G4/750
BL (0°-30°)	980.4	4.9	B2/1000		
BM (30°-60°)	1103.0	5.5	B2/2500		
BH (60°-80°)	874.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	50.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5573.9	5573.9	5573.9	5573.9	5573.9	5573.9	5573.9	5573.9	5573.9	5573.9	5573.9
2.5°	5721.8	5714.1	5716.9	5711.3	5698.0	5684.7	5665.0	5668.6	5641.3	5600.6	5550.2
5°	5613.9	5611.1	5632.1	5644.1	5653.8	5646.1	5640.5	5647.5	5607.5	5551.6	5463.9
7.5°	5387.5	5356.7	5383.3	5423.3	5461.1	5489.9	5527.7	5532.6	5507.4	5448.5	5333.6
10°	5065.8	5036.4	5075.7	5138.0	5213.8	5282.4	5358.8	5372.8	5377.7	5324.4	5185.0
12.5°	4732.4	4709.9	4749.1	4836.8	4962.2	5068.0	5189.9	5211.0	5254.4	5218.6	5047.7
15°	4433.8	4425.4	4473.0	4559.3	4703.6	4865.5	5041.3	5079.9	5153.5	5141.6	4940.5
17.5°	4175.9	4173.8	4210.2	4300.7	4460.4	4665.0	4893.5	4958.6	5068.0	5082.0	4852.2
20°	3983.9	3979.7	4004.9	4071.5	4236.2	4468.2	4733.8	4823.5	4981.1	5030.2	4761.0
22.5°	3880.9	3880.2	3880.9	3912.4	4046.9	4262.8	4578.2	4687.5	4896.3	4988.8	4660.2
25°	3863.4	3861.3	3845.8	3842.4	3918.7	4091.1	4424.0	4544.6	4815.7	4960.0	4564.1
27.5°	3908.9	3911.8	3891.4	3858.5	3873.8	3978.3	4290.1	4419.1	4751.3	4954.4	4497.6
30°	4003.5	4002.1	3984.6	3950.2	3920.1	3936.3	4194.9	4323.8	4707.8	4979.0	4452.1
32.5°	4107.9	4115.7	4112.1	4093.2	4048.3	3983.9	4166.1	4292.2	4695.2	5037.9	4432.4
35°	4233.3	4241.8	4267.0	4281.8	4229.1	4125.5	4227.7	4337.1	4731.6	5148.6	4463.9
37.5°	4352.5	4374.3	4445.0	4507.4	4462.5	4346.9	4391.8	4469.6	4844.4	5323.0	4548.7
40°	4489.9	4508.8	4624.4	4756.9	4749.9	4630.0	4656.0	4707.8	5043.5	5573.3	4702.2
42.5°	4625.1	4663.0	4830.4	5018.2	5072.2	4966.4	5007.7	5035.0	5323.8	5904.7	4969.9
45°	4805.2	4845.8	5078.5	5304.9	5431.0	5371.4	5437.3	5447.8	5676.3	6356.0	5358.8
47.5°	5077.8	5124.1	5395.2	5632.8	5825.5	5831.9	5940.5	5936.3	6116.4	6872.5	5848.6
50°	5502.5	5569.1	5791.2	6013.3	6247.4	6377.7	6522.8	6502.5	6644.0	7422.6	6412.8
52.5°	6058.9	6089.7	6254.4	6418.4	6709.2	7001.4	7209.5	7191.4	7242.5	7988.1	7053.3
55°	6635.6	6658.7	6726.7	6816.4	7207.5	7684.0	8124.0	8095.3	7965.7	8575.4	7686.1
57.5°	7154.2	7201.1	7248.1	7285.3	7709.2	8397.3	9059.6	9061.7	8750.6	9208.8	8339.9
60°	7234.8	7276.1	7586.5	7879.5	8567.6	9349.0	10061.0	10039.9	9562.7	9896.3	9068.7
62.5°	6395.3	6488.4	7007.0	7786.2	9394.6	11089.7	11338.5	11312.6	10534.0	10743.5	9917.3
65°	4583.0	4688.9	5314.7	6485.6	8993.7	13007.8	13644.0	13295.0	11858.5	11785.6	10911.0
67.5°	2644.0	2669.3	2940.4	3880.9	6848.0	13108.0	17161.2	16672.7	13915.3	12967.8	11397.4
70°	1955.1	1954.5	2018.9	2388.2	3705.7	10698.0	18833.9	19271.9	16080.7	13356.7	10709.9
71°	1768.1	1770.1	1842.3	2173.8	2934.8	8954.5	18478.6	19437.3	16651.0	13164.7	10212.4
72.5°	1512.3	1519.3	1619.5	1949.5	2468.8	6175.2	16948.2	18445.0	16921.6	12691.0	9433.8
75°	1147.2	1163.3	1302.0	1643.3	2256.5	3131.8	12438.7	14728.9	15032.3	11198.3	7009.8
77.5°	818.5	836.7	993.7	1382.0	2145.1	2360.2	8330.1	10743.5	11062.4	7176.6	3161.9
80°	517.2	538.9	657.3	1099.5	2015.4	2241.1	5234.7	7221.5	6032.2	2296.5	804.5
82.5°	303.4	320.3	407.8	718.3	1646.1	2158.4	3079.9	4002.9	2347.6	693.7	365.8
85°	175.9	183.6	254.4	457.6	1195.5	2037.1	2262.8	2237.6	1018.9	339.2	173.1
87.5°	82.0	91.1	150.6	238.9	663.6	1476.5	1788.4	1545.2	633.5	159.1	81.3
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°	5573.9	5573.9	5573.9	5573.9	5573.9	5573.9	5573.9	5573.9	5573.9	5573.9	5573.9
2.5°	5525.6	5513.6	5463.9	5419.7	5373.5	5313.3	5246.7	5238.3	5197.7	5205.3	5191.3
5°	5416.3	5386.1	5266.3	5157.7	5029.4	4914.6	4789.7	4732.4	4649.6	4644.0	4623.0
7.5°	5260.0	5203.9	5018.2	4812.2	4606.2	4409.9	4215.8	4088.3	3958.0	3902.6	3897.7
10°	5084.1	4988.8	4715.5	4410.7	4113.5	3826.9	3549.4	3344.1	3159.1	3071.5	3068.0
12.5°	4917.4	4776.5	4401.6	3986.7	3580.2	3208.8	2828.4	2558.5	2326.5	2248.8	2215.9
15°	4775.8	4577.4	4096.0	3565.5	3072.2	2556.4	2123.4	1839.5	1625.1	1550.8	1536.8
17.5°	4638.5	4383.3	3782.7	3140.2	2543.8	1976.8	1543.1	1332.2	1217.9	1187.8	1187.1
20°	4501.8	4183.6	3455.5	2705.0	2032.9	1478.6	1186.4	1091.8	1053.3	1049.8	1044.2
22.5°	4346.9	3972.0	3111.5	2268.4	1586.5	1162.6	1008.4	970.6	965.6	978.3	978.3
25°	4201.8	3761.8	2762.4	1840.9	1234.0	969.8	900.5	892.8	906.1	928.6	930.6
27.5°	4066.6	3559.3	2421.8	1461.1	988.7	854.2	825.5	834.7	858.4	884.4	885.1
30°	3955.2	3367.9	2091.1	1151.4	835.3	768.1	763.1	781.4	807.3	827.6	832.5
32.5°	3869.0	3204.6	1771.5	925.7	735.1	703.6	707.8	723.2	739.3	750.5	758.3
35°	3829.0	3064.5	1476.5	780.6	671.4	653.9	659.4	667.8	674.8	683.3	689.5
37.5°	3836.0	2955.9	1213.1	690.3	628.6	619.5	619.5	619.5	619.5	623.7	624.4
40°	3901.2	2893.5	998.6	632.8	599.8	590.0	582.3	575.3	569.7	572.5	571.1
42.5°	4068.0	2887.9	841.7	596.4	576.7	560.6	545.2	535.4	528.4	531.2	532.6
45°	4351.1	2957.9	735.8	570.4	555.0	530.5	510.9	500.3	495.5	504.5	505.9
47.5°	4717.6	3110.7	671.4	551.5	534.7	502.5	481.4	471.6	473.0	486.4	489.8
50°	5189.9	3358.8	640.5	539.6	520.6	478.6	456.9	448.5	452.7	471.6	475.8
52.5°	5708.5	3716.2	644.0	536.1	511.6	461.1	438.0	428.1	435.2	452.7	456.2
55°	6306.9	4145.8	702.2	541.0	498.3	449.9	422.5	405.8	411.4	427.5	430.3
57.5°	6972.0	4637.7	819.2	539.6	481.4	439.4	406.4	381.2	385.4	395.3	398.1
60°	7664.3	5231.9	1000.7	543.8	473.7	426.7	384.7	353.1	351.8	360.2	361.6
62.5°	8495.4	5919.4	1208.1	546.6	478.6	410.6	356.0	325.2	320.9	323.1	324.5
65°	9351.8	6417.0	1130.3	535.4	494.0	397.3	330.8	297.8	290.1	288.7	289.4
67.5°	9378.4	5883.7	792.6	513.0	500.3	390.3	311.9	274.7	262.0	257.2	256.5
70°	8410.7	4780.0	617.3	489.2	475.1	379.1	294.4	255.8	236.9	229.2	228.4
71°	7938.4	4400.2	585.1	477.2	456.2	367.9	286.6	247.4	227.8	219.4	218.0
72.5°	7197.6	3944.6	545.9	458.3	419.8	339.2	271.9	235.5	215.1	205.3	203.3
75°	5165.4	2579.5	468.8	408.6	347.6	270.5	238.3	211.6	194.1	182.2	180.8
77.5°	1990.2	1026.7	354.5	339.8	266.3	211.6	196.2	182.9	170.3	158.4	157.7
80°	615.3	459.0	258.6	255.8	192.7	157.7	152.8	149.2	144.4	131.7	128.9
82.5°	328.6	263.5	178.0	165.3	126.1	105.1	110.8	112.2	112.8	99.5	98.1
85°	157.0	139.5	100.2	93.9	73.6	58.9	68.0	73.6	74.2	60.9	56.7
87.5°	75.0	72.8	46.9	35.8	27.3	19.7	23.8	29.4	32.2	23.1	20.3
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)