

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: P319481

Luminaire Tested: **GLEON-SA7B-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29109 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

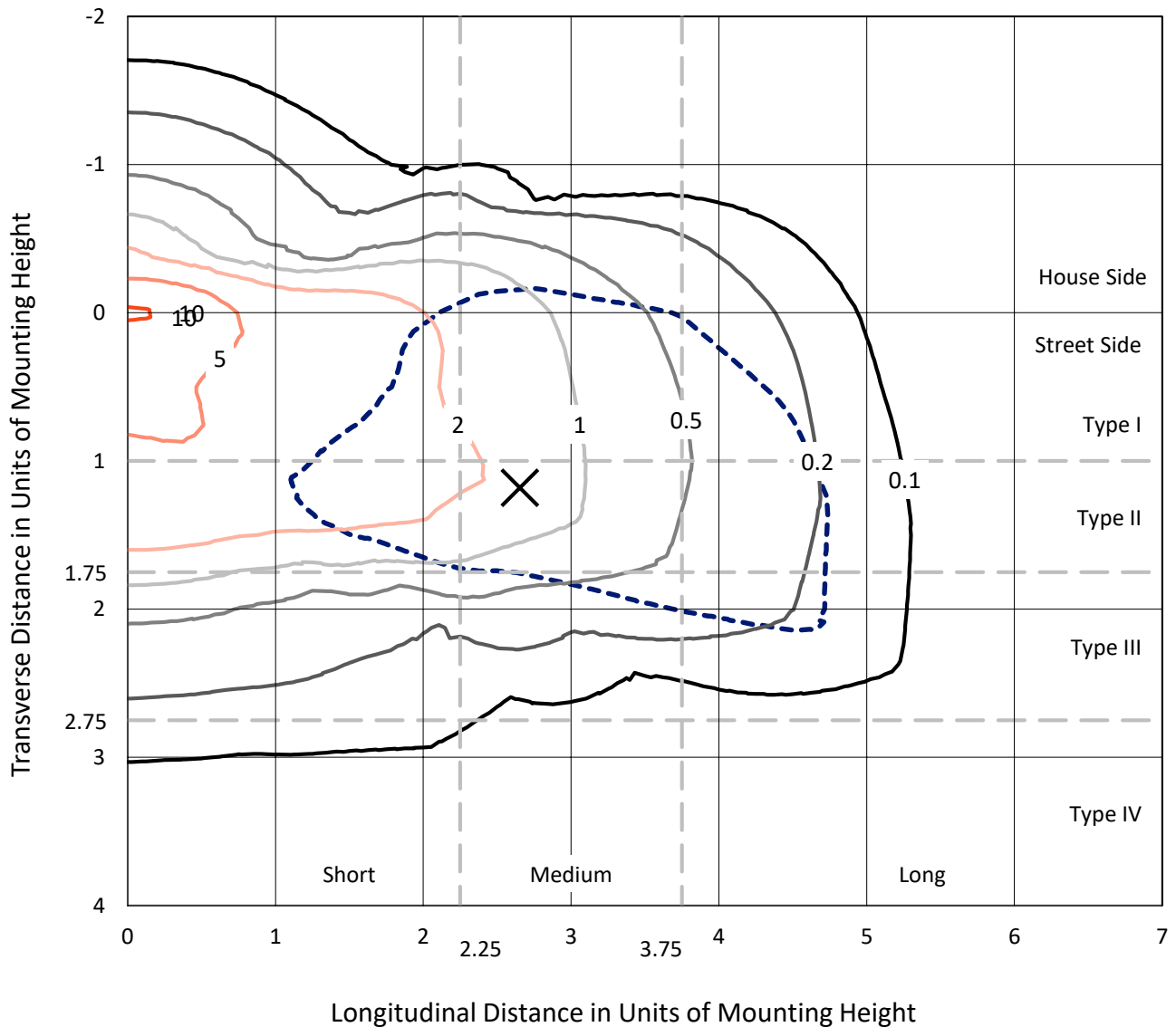
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

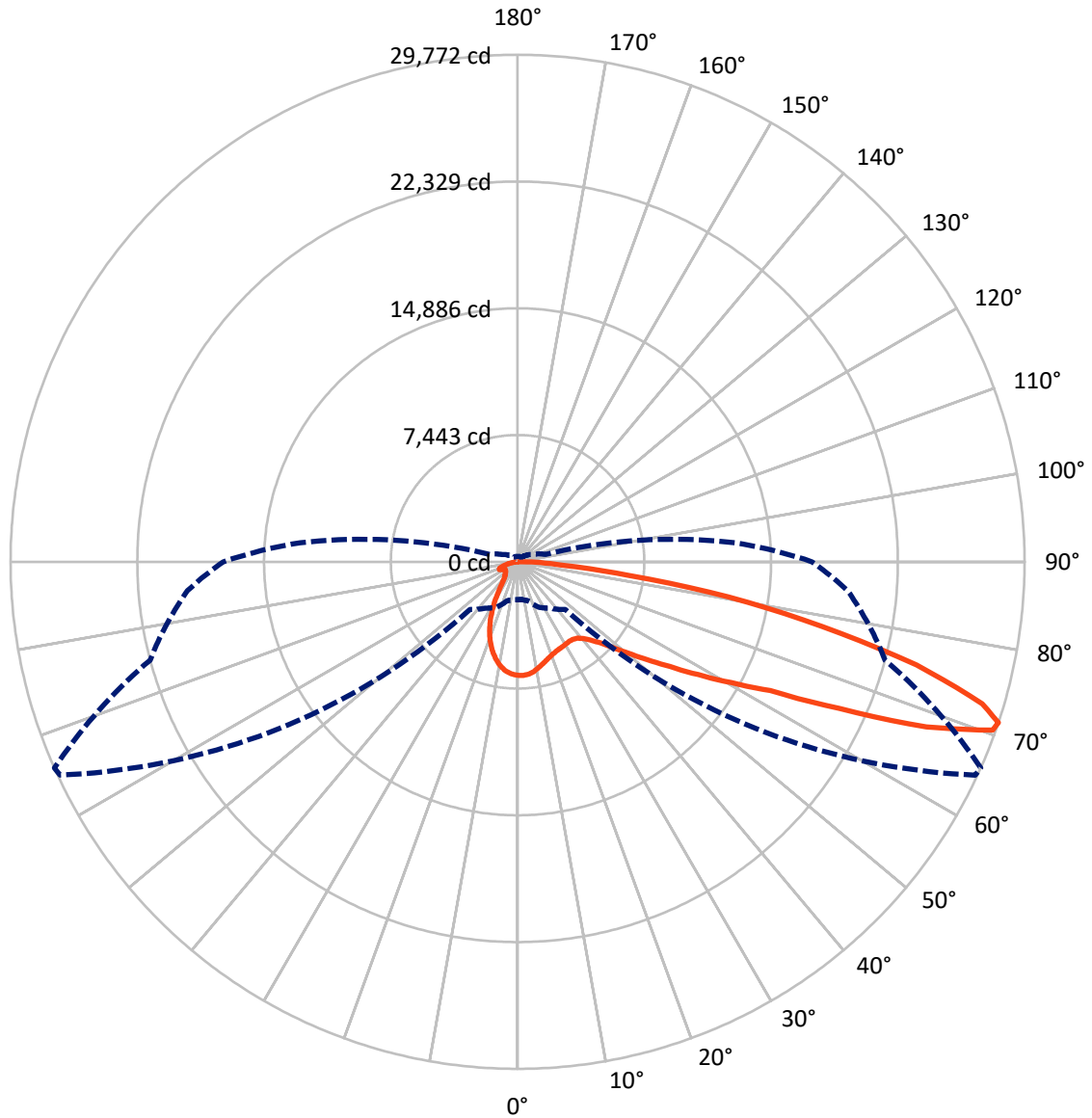
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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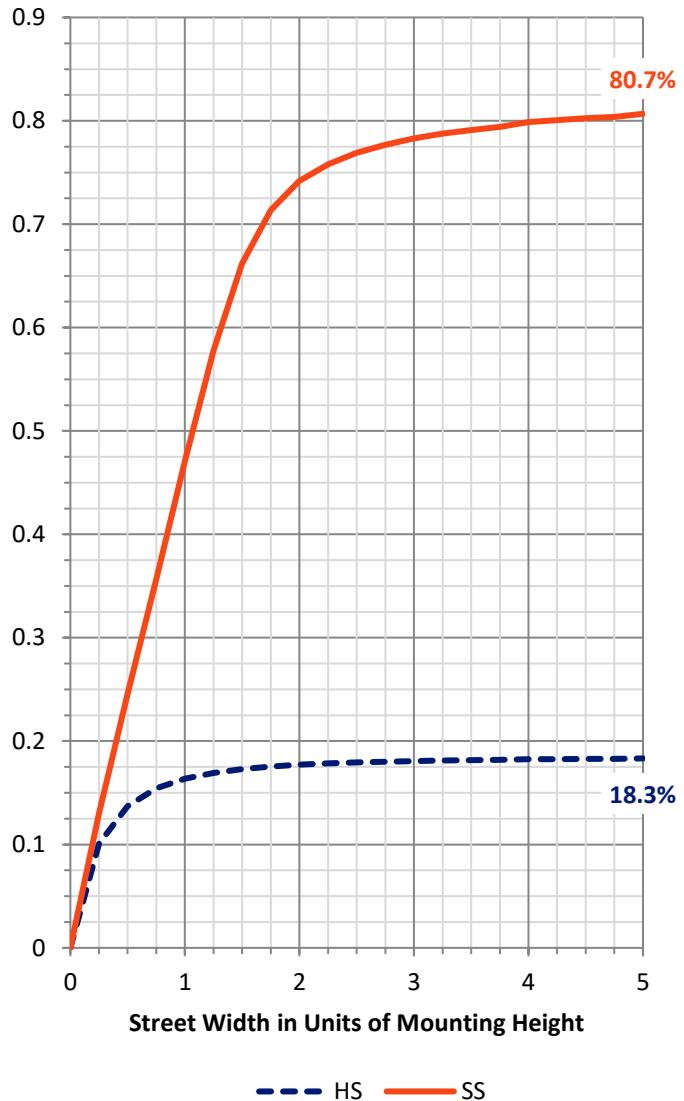
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5394.7	0.0	5394.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	23714.3	0.0	23714.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	29109.0	0.0	29109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.0	2.0
10°-20°	1407.8	4.8
20°-30°	1891.0	6.5
30°-40°	2487.6	8.5
40°-50°	3618.8	12.4
50°-60°	5653.0	19.4
60°-70°	7081.3	24.3
70°-80°	5401.5	18.6
80°-90°	980.9	3.4
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°	29109.0	100.0
0°-180°	29109.0	100.0

Coefficient of Utilization

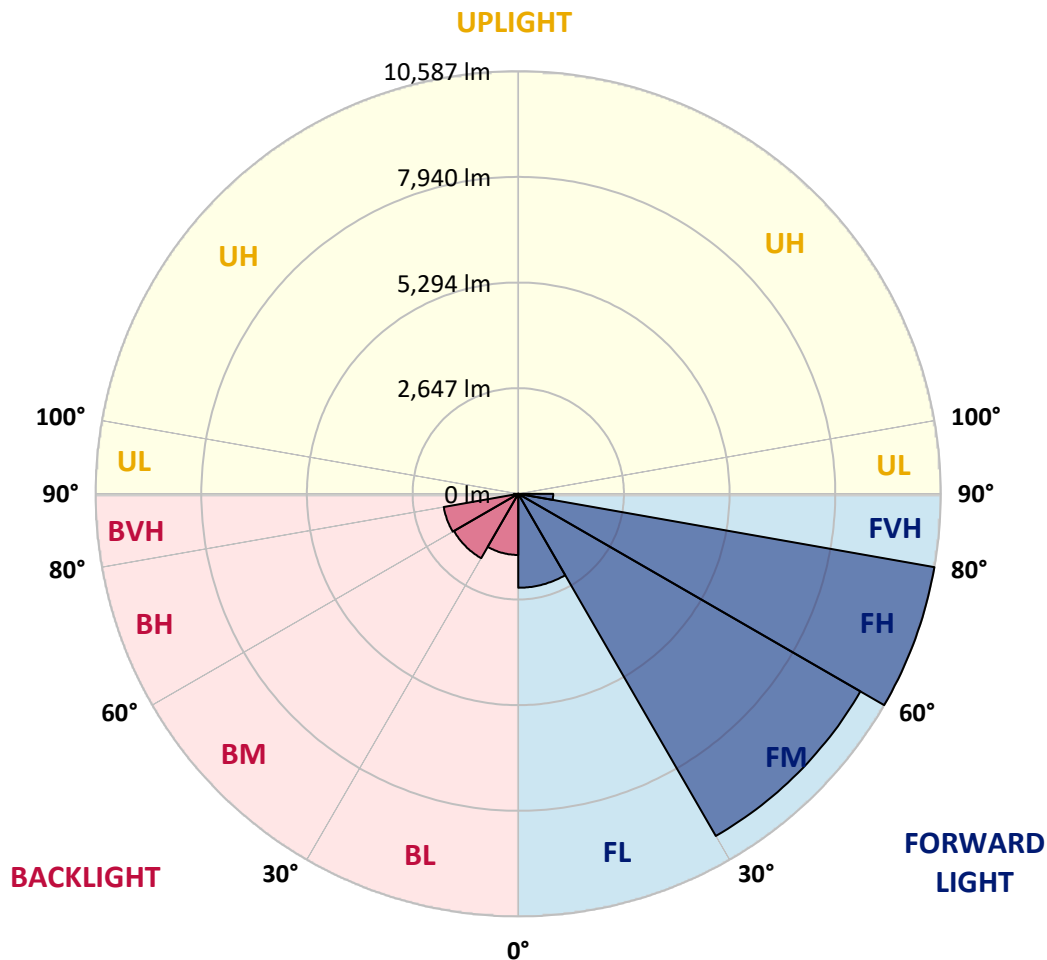


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2353.9	8.1			
FM (30°-60°)	9898.5	34.0			
FH (60°-80°)	10587.3	36.4			G4/12000
FVH (80°-90°)	874.7	3.0			G5
BL (0°-30°)	1531.9	5.3	B3/2500		
BM (30°-60°)	1861.0	6.4	B2/2500		
BH (60°-80°)	1895.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	106.2	0.4			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6668.3	6668.3	6668.3	6668.3	6668.3	6668.3	6668.3	6668.3	6668.3	6668.3	6668.3
2.5°	6544.7	6534.6	6564.8	6595.9	6608.0	6628.1	6658.3	6675.3	6674.3	6677.4	6667.3
5°	6110.5	6097.5	6157.8	6207.0	6301.5	6408.0	6537.7	6630.1	6632.1	6684.4	6698.5
7.5°	5699.5	5690.4	5759.8	5839.2	5948.7	6111.5	6321.6	6520.6	6532.6	6674.3	6723.6
10°	5369.8	5367.8	5435.1	5521.6	5649.2	5831.1	6072.3	6363.8	6381.9	6626.1	6727.6
12.5°	5112.5	5116.6	5174.8	5273.3	5408.0	5598.0	5859.3	6187.9	6217.1	6549.7	6704.5
15°	4922.6	4938.7	4985.9	5085.4	5218.1	5411.0	5679.4	6025.1	6069.3	6464.3	6691.4
17.5°	4814.0	4832.1	4865.3	4947.7	5072.3	5258.3	5512.5	5891.4	5931.6	6399.0	6692.4
20°	4781.9	4797.0	4816.1	4866.3	4971.8	5140.7	5380.9	5770.8	5814.0	6346.7	6702.5
22.5°	4845.2	4856.3	4858.3	4854.2	4918.6	5056.3	5285.4	5682.4	5728.6	6312.5	6709.5
25°	4980.9	4996.0	4984.9	4947.7	4926.6	5011.0	5236.2	5624.1	5670.3	6287.4	6695.4
27.5°	5184.9	5186.9	5177.9	5129.6	5030.1	5016.1	5221.1	5589.9	5634.1	6258.3	6666.3
30°	5462.3	5475.3	5459.3	5393.9	5231.1	5096.5	5239.2	5556.8	5597.0	6221.1	6619.1
32.5°	5786.9	5819.1	5818.1	5749.7	5516.6	5276.4	5313.5	5536.7	5567.8	6181.9	6561.8
35°	6123.6	6167.8	6250.2	6221.1	5932.6	5560.8	5456.3	5568.8	5589.9	6176.9	6521.6
37.5°	6473.3	6517.6	6687.4	6765.8	6428.1	5967.8	5681.4	5682.4	5692.4	6238.2	6518.6
40°	6839.2	6886.4	7141.7	7345.7	7070.3	6483.4	6044.2	5919.6	5908.5	6388.9	6577.9
42.5°	7351.7	7393.9	7700.5	7960.8	7782.9	7143.7	6545.7	6285.4	6262.3	6684.4	6767.8
45°	8000.0	8036.1	8361.8	8640.2	8548.7	7897.4	7175.8	6788.9	6784.9	7176.8	7152.7
47.5°	8770.8	8799.0	9091.4	9360.8	9393.9	8764.8	7967.8	7565.8	7500.5	7852.2	7748.7
50°	9573.8	9605.0	9804.0	10093.4	10339.6	9925.6	8986.9	8517.5	8430.1	8743.7	8592.9
52.5°	10105.5	10146.7	10319.5	10686.4	11403.0	11197.9	10191.9	9671.3	9538.6	9824.1	9708.5
55°	9868.3	9960.8	10225.1	10813.0	12253.2	13141.6	11678.3	11017.0	10867.3	11104.5	11036.1
57.5°	8789.9	8916.5	9277.3	10184.9	12372.8	14854.2	13925.6	12601.9	12496.4	12428.1	12459.2
60°	6819.1	6940.7	7387.9	8570.8	11539.6	16104.4	17307.5	14555.7	14402.9	13756.7	13784.9
62.5°	4826.1	4764.8	5071.3	5936.7	9376.8	16251.2	21155.7	17168.8	16666.2	15159.7	15036.1
65°	3680.4	3666.3	3804.0	4079.4	5679.4	14495.4	23448.1	21560.7	20775.8	16810.0	16518.5
67.5°	3024.1	2999.0	3134.7	3535.7	3657.3	9351.7	23498.4	26656.1	25885.3	18864.2	18233.1
70°	2486.4	2458.3	2584.9	3102.5	3379.9	4742.7	19776.8	29640.1	29598.8	21465.2	19527.5
71°	2229.1	2209.0	2360.8	2935.7	3320.6	3952.7	17075.3	29648.1	29771.7	22345.6	19451.2
72.5°	1815.1	1822.1	1982.9	2613.1	3276.4	3490.4	12549.7	28266.2	28527.5	23184.8	18756.7
75°	1206.0	1212.1	1423.1	2010.0	3176.9	3415.1	6897.5	23718.5	24198.9	22682.3	17115.5
77.5°	810.0	808.0	951.8	1378.9	2767.8	3415.1	4044.2	17739.6	18267.2	18048.2	13194.9
80°	557.8	553.8	655.3	951.8	2095.5	3456.3	3126.6	12432.1	12591.9	9746.7	5362.8
82.5°	341.7	344.7	428.1	672.4	1426.1	3110.5	2951.7	6778.9	6605.0	2733.7	1339.7
85°	196.0	195.0	273.4	455.3	915.6	2625.1	2878.4	2917.6	2676.4	823.1	484.4
87.5°	70.4	75.4	146.7	252.3	524.6	1828.1	2442.2	1517.6	1367.8	371.9	219.1
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°	6668.3	6668.3	6668.3	6668.3	6668.3	6668.3	6668.3	6668.3	6668.3	6668.3	6668.3
2.5°	6660.3	6666.3	6659.3	6619.1	6584.9	6529.6	6498.5	6455.2	6442.2	6436.1	6452.2
5°	6685.4	6687.4	6628.1	6522.6	6404.0	6264.3	6163.8	6040.2	5981.9	5956.8	5972.8
7.5°	6708.5	6699.5	6569.8	6367.8	6148.7	5905.5	5689.4	5491.4	5375.9	5328.6	5332.6
10°	6711.5	6673.3	6465.3	6152.7	5813.0	5456.3	5124.6	4819.1	4626.1	4500.5	4538.7
12.5°	6680.4	6616.0	6311.5	5874.3	5403.0	4916.6	4468.3	4010.0	3734.7	3607.0	3611.0
15°	6656.2	6539.7	6122.6	5546.7	4913.5	4269.3	3657.3	3118.6	2825.1	2694.5	2633.2
17.5°	6636.1	6457.3	5903.5	5177.9	4335.7	3518.6	2782.9	2302.5	2141.7	2103.5	2087.4
20°	6608.0	6369.8	5659.3	4750.7	3677.4	2678.4	2032.2	1795.0	1796.0	1840.2	1846.2
22.5°	6568.8	6270.3	5399.0	4271.3	2970.8	1950.7	1593.0	1524.6	1594.0	1678.4	1693.5
25°	6510.5	6152.7	5109.5	3741.7	2265.3	1499.5	1360.8	1357.8	1442.2	1530.6	1543.7
27.5°	6428.1	5999.0	4787.9	3172.8	1669.3	1274.4	1219.1	1240.2	1302.5	1366.8	1371.9
30°	6317.6	5820.1	4433.1	2572.9	1308.5	1134.7	1128.6	1147.7	1185.9	1231.1	1235.2
32.5°	6195.9	5638.2	4054.3	1991.9	1120.6	1059.3	1065.3	1074.4	1092.5	1110.5	1114.6
35°	6085.4	5452.2	3666.3	1513.6	1031.2	1010.0	1006.0	1004.0	1006.0	1000.0	1001.0
37.5°	6014.0	5298.5	3262.3	1205.0	979.9	966.8	954.8	939.7	922.6	912.6	914.6
40°	5987.9	5183.9	2853.3	1041.2	937.7	928.6	905.5	873.4	853.3	847.2	847.2
42.5°	6058.3	5124.6	2458.3	958.8	902.5	887.4	849.2	812.1	797.0	796.0	795.0
45°	6273.3	5148.7	2082.4	913.6	870.3	841.2	791.0	759.8	749.7	751.8	750.8
47.5°	6659.3	5300.5	1760.8	883.4	838.2	800.0	743.7	718.6	706.5	706.5	707.5
50°	7315.5	5655.2	1504.5	858.3	811.1	761.8	709.5	678.4	662.3	661.3	661.3
52.5°	8271.3	6290.4	1344.7	837.2	780.9	727.6	675.4	636.2	617.1	613.1	611.1
55°	9469.3	7201.0	1300.5	823.1	740.7	690.4	634.2	595.0	573.9	564.8	563.8
57.5°	10809.0	8308.5	1387.9	806.0	699.5	646.2	588.9	551.8	529.6	518.6	517.6
60°	12164.8	9517.5	1744.7	781.9	665.3	598.0	542.7	508.5	486.4	474.4	472.4
62.5°	13522.5	10791.9	2473.4	779.9	641.2	551.8	495.5	466.3	445.2	432.2	429.1
65°	15054.2	12186.9	3301.5	833.2	633.2	509.5	447.2	424.1	406.0	394.0	393.0
67.5°	16813.0	13761.7	3222.1	942.7	660.3	471.4	402.0	383.9	370.9	360.8	359.8
70°	17638.1	13515.5	2003.0	1020.1	698.5	434.2	358.8	345.7	335.7	328.6	325.6
71°	17292.4	12833.1	1679.4	1011.1	694.5	418.1	341.7	331.7	321.6	315.6	312.6
72.5°	16349.7	11703.5	1401.0	940.7	649.2	388.9	319.6	309.5	300.5	293.5	291.5
75°	14671.3	10452.2	1121.6	751.8	517.6	328.6	280.4	269.3	262.3	258.3	254.3
77.5°	10784.9	7459.3	867.3	594.0	380.9	268.3	239.2	231.2	224.1	218.1	215.1
80°	4131.6	2889.4	583.9	443.2	279.4	212.1	193.0	188.9	181.9	177.9	177.9
82.5°	1112.6	863.3	311.6	268.3	186.9	154.8	147.7	145.7	139.7	131.7	132.7
85°	450.2	380.9	174.9	147.7	114.6	91.5	99.5	100.5	93.5	83.4	84.4
87.5°	198.0	161.8	97.5	65.3	50.3	35.2	45.2	45.2	41.2	34.2	31.2
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)