

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: P383519

Luminaire Tested: **GLEON-SA8A-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35002 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

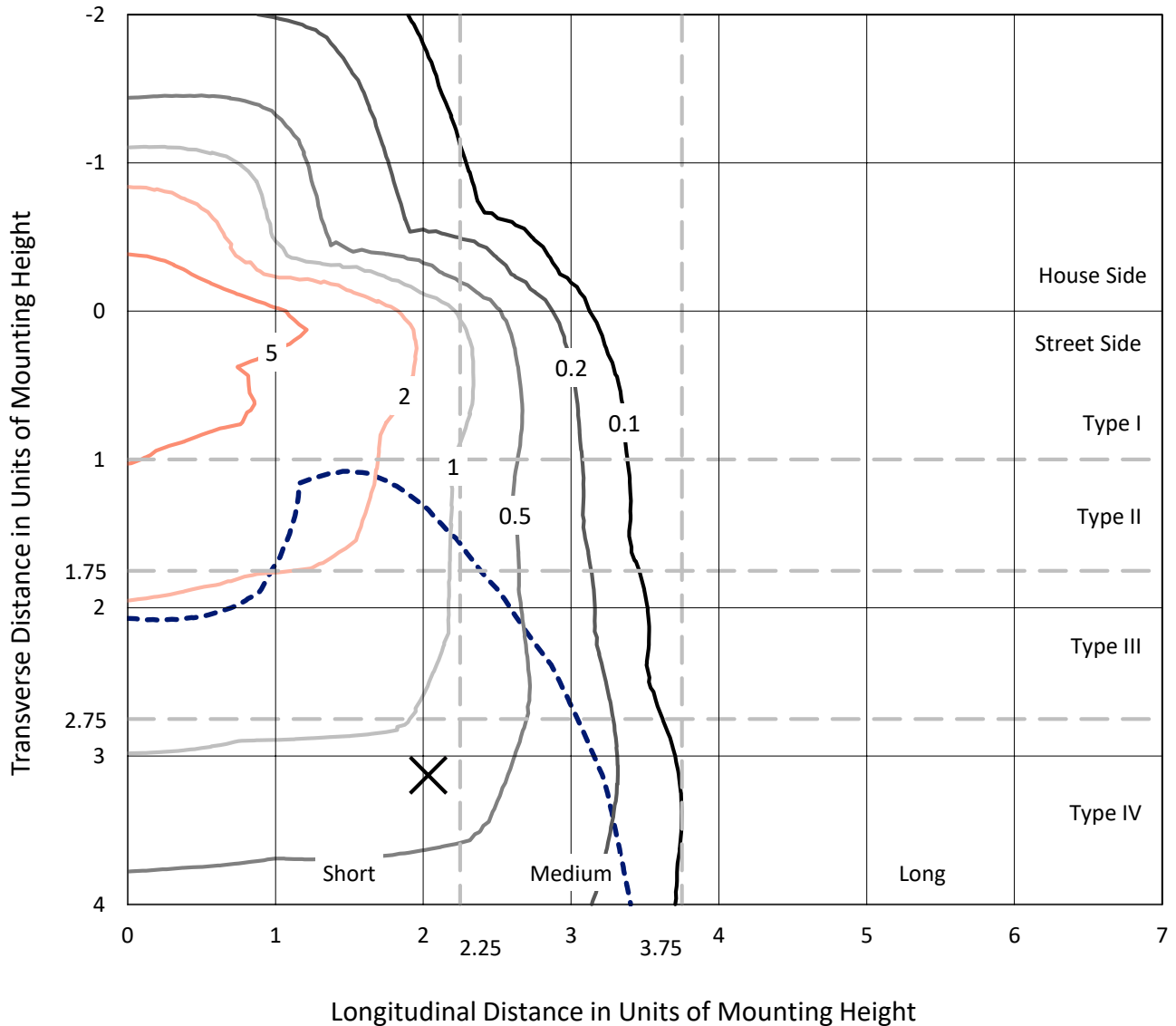
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

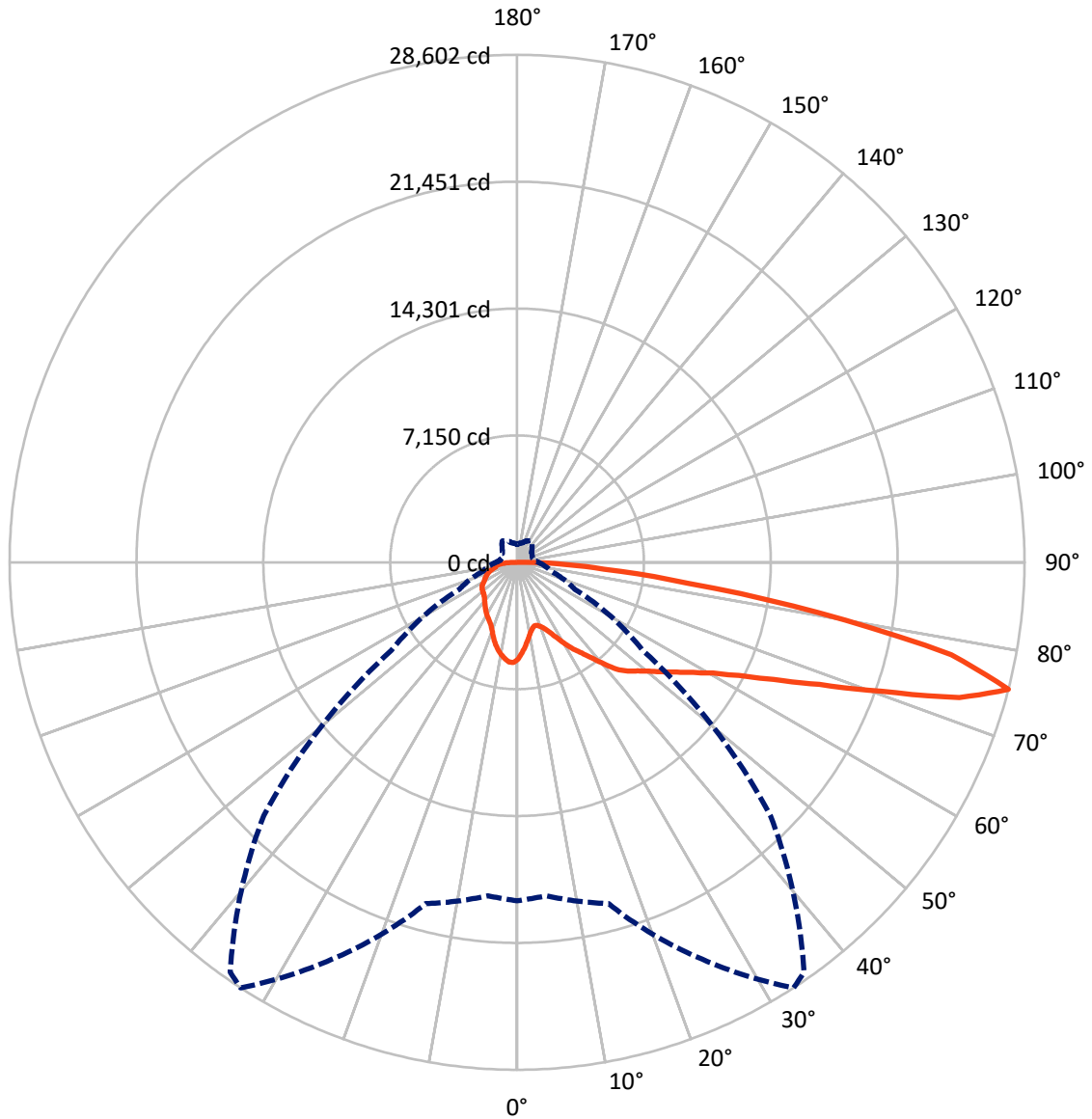
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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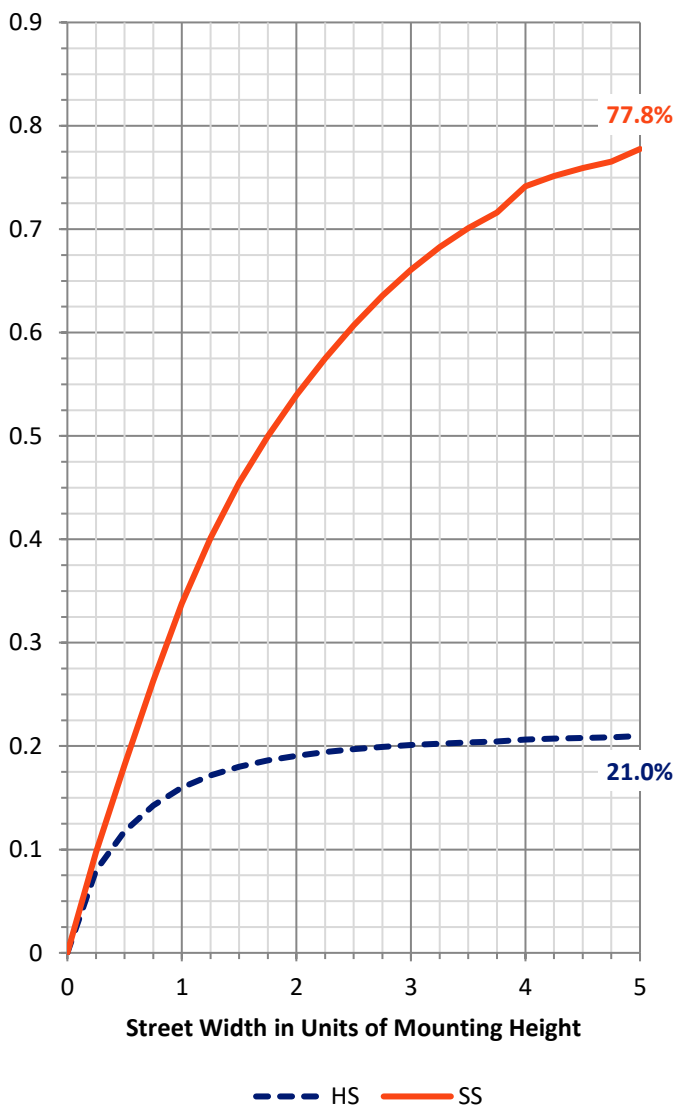
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7515.8	0.0	7515.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	27486.1	0.0	27486.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	35002.0	0.0	35002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.8	1.4
10°-20°	1340.1	3.8
20°-30°	2188.6	6.3
30°-40°	3259.3	9.3
40°-50°	4674.7	13.4
50°-60°	6417.6	18.3
60°-70°	8034.6	23.0
70°-80°	7268.5	20.8
80°-90°	1324.0	3.8
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°	35002.0	100.0
0°-180°	35002.0	100.0

Coefficient of Utilization

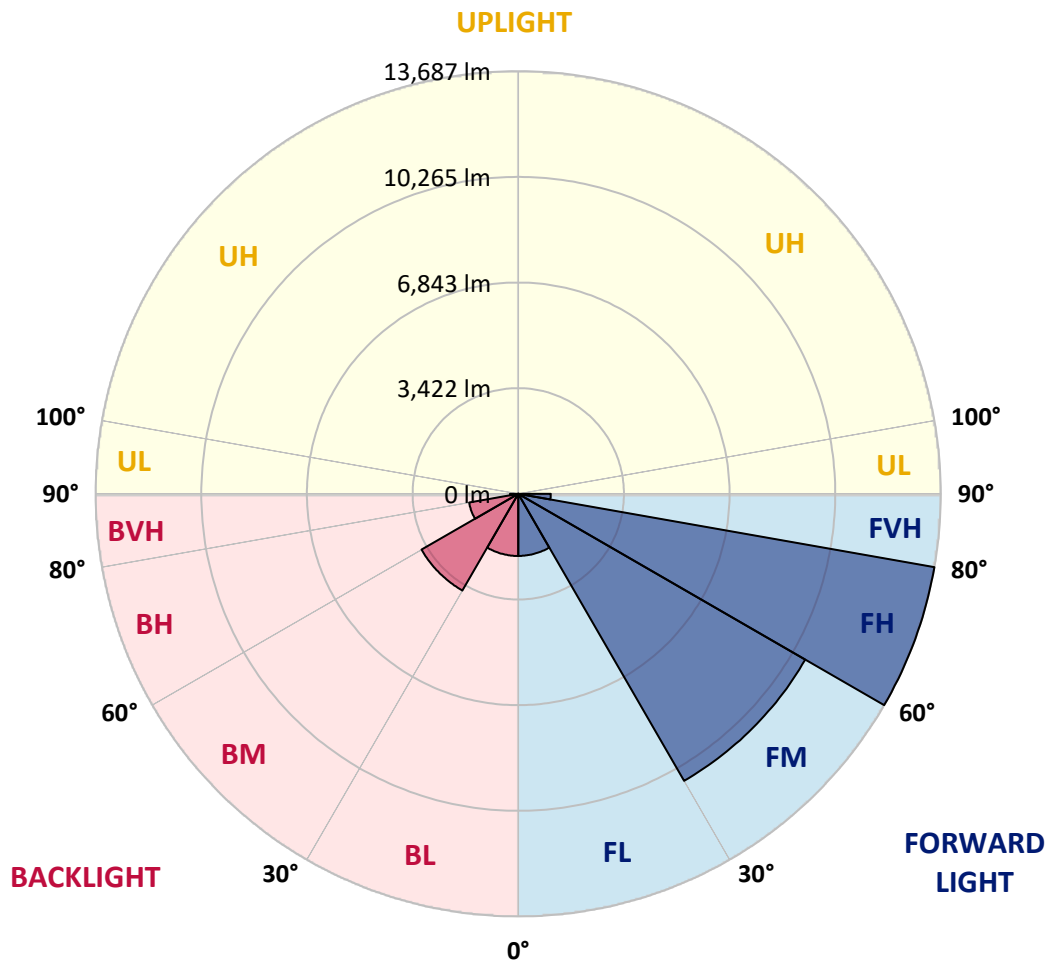


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2010.3	5.7			
FM (30°-60°)	10734.4	30.7			
FH (60°-80°)	13687.0	39.1			G5
FVH (80°-90°)	1054.4	3.0			G5
BL (0°-30°)	2013.1	5.8	B3/2500		
BM (30°-60°)	3617.2	10.3	B3/5000		
BH (60°-80°)	1616.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	269.5	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0
2.5°	5080.5	5061.1	5097.4	5102.3	5133.7	5145.8	5189.3	5257.0	5312.6	5376.7	5434.7
5°	4619.8	4606.5	4657.3	4693.6	4762.5	4791.5	4894.3	5038.2	5166.4	5311.4	5443.2
7.5°	4182.2	4174.9	4231.7	4313.9	4393.7	4433.6	4611.3	4820.6	5034.5	5269.1	5471.0
10°	3813.4	3811.0	3865.4	3946.4	4063.7	4108.4	4338.1	4613.8	4913.6	5236.4	5518.1
12.5°	3606.7	3615.1	3640.5	3708.2	3817.0	3861.7	4116.9	4440.9	4812.1	5225.6	5587.0
15°	3657.4	3670.7	3627.2	3624.7	3702.2	3737.2	3976.6	4317.5	4739.5	5243.7	5687.5
17.5°	3873.8	3876.3	3761.4	3688.8	3736.0	3754.1	3933.1	4247.4	4697.2	5284.8	5813.1
20°	4178.5	4172.5	3969.3	3848.4	3873.8	3878.7	3994.8	4248.6	4693.6	5356.1	5976.4
22.5°	4582.4	4537.6	4264.3	4099.9	4093.9	4086.6	4153.1	4338.1	4746.8	5472.2	6171.0
25°	5109.5	5067.2	4691.2	4466.3	4418.0	4399.8	4409.5	4529.2	4852.0	5596.7	6388.6
27.5°	5695.9	5622.2	5259.4	4941.4	4841.1	4815.7	4757.7	4798.8	4966.8	5716.4	6647.4
30°	6186.8	6146.9	5830.1	5452.9	5334.4	5298.1	5145.8	5101.1	5132.5	5879.6	6973.8
32.5°	6461.2	6434.7	6242.4	5937.7	5827.7	5776.9	5561.7	5472.2	5398.5	6137.2	7416.4
35°	6793.7	6776.8	6660.8	6439.4	6276.2	6223.0	6056.2	5963.1	5773.3	6491.5	7988.3
37.5°	7216.9	7198.7	7201.1	7022.2	6827.6	6778.0	6668.0	6570.0	6259.3	6957.0	8609.7
40°	7695.7	7660.6	7647.4	7638.9	7515.5	7487.7	7429.7	7296.7	6868.7	7513.1	9222.7
42.5°	8416.3	8291.7	8025.7	8126.1	8248.2	8233.7	8280.9	8089.8	7545.7	8170.9	9821.2
45°	9111.5	8907.2	8447.7	8469.4	8736.7	8817.7	9170.7	9035.4	8279.7	8891.4	10440.2
47.5°	9428.3	9273.5	8883.0	8884.2	9149.0	9317.1	10090.8	9994.1	9051.0	9710.0	11195.9
50°	9782.6	9627.7	9277.1	9408.9	9639.8	9818.8	10979.5	10929.9	9785.0	10605.9	12101.5
52.5°	10169.4	9907.0	9684.6	9920.3	10244.4	10452.3	11869.3	11734.0	10458.4	11507.9	13142.5
55°	10174.3	10102.9	10272.2	10445.1	10929.9	11185.0	12801.5	12443.7	11007.3	12394.1	13990.1
57.5°	10753.4	10637.3	10996.5	11076.2	11709.7	11997.5	13728.9	13061.5	11565.9	13073.6	14447.1
60°	11520.0	11420.8	11714.6	11925.0	12674.6	13059.1	14719.1	13696.3	12004.8	13586.2	14425.3
62.5°	12843.9	12731.5	12727.8	13022.8	14032.4	14479.7	15830.3	14318.9	12178.9	13687.8	13809.9
65°	14782.0	14603.0	14265.7	14406.0	15907.7	16353.8	17071.9	14769.9	11949.1	13143.7	12224.8
67.5°	16668.1	16662.0	16247.4	16535.2	18383.8	18741.6	18486.6	14814.6	11232.2	11249.1	9412.5
70°	18548.2	18572.4	18502.3	19503.3	21729.3	22101.6	19993.1	14213.7	9620.5	8123.7	5639.0
72.5°	20037.8	20031.7	20384.8	22966.1	26071.0	25987.6	21262.6	12392.8	6907.3	4385.3	2695.0
75°	19073.0	18862.5	19914.4	24680.6	28601.6	28194.1	20182.9	8644.8	3584.9	1996.1	1450.9
77.5°	12440.1	12639.5	14183.5	20388.4	25017.9	24522.2	14807.4	4033.4	1689.1	1309.4	1051.9
80°	4505.0	4715.3	6641.4	11549.0	17236.4	17155.4	7291.9	1657.6	1142.5	989.0	766.6
82.5°	1550.0	1627.4	2620.1	5128.8	9731.7	10094.4	2743.3	941.9	830.7	701.3	524.7
85°	608.1	696.4	1198.2	2467.7	4908.8	4945.0	1111.1	563.4	577.9	459.4	287.8
87.5°	230.9	280.5	573.1	1146.2	2241.6	2059.0	397.8	268.4	328.8	273.2	136.7
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°	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0
2.5°	5479.5	5504.9	5558.1	5594.3	5633.0	5643.9	5648.7	5658.4	5668.1	5664.5	5665.7
5°	5513.4	5562.9	5648.7	5685.0	5701.9	5682.6	5645.1	5614.9	5593.1	5581.0	5577.4
7.5°	5569.0	5639.0	5731.0	5724.9	5686.3	5600.4	5503.7	5431.1	5370.7	5348.9	5336.8
10°	5642.7	5724.9	5789.0	5720.1	5607.6	5458.9	5313.8	5201.4	5110.7	5075.6	5069.6
12.5°	5737.0	5820.4	5832.5	5686.3	5500.0	5296.9	5099.9	4951.1	4815.7	4772.1	4762.5
15°	5859.2	5937.7	5862.7	5627.0	5367.0	5093.8	4838.6	4636.8	4494.1	4440.9	4421.5
17.5°	5987.2	6062.2	5868.7	5529.0	5192.9	4853.2	4532.8	4326.0	4162.8	4101.1	4093.9
20°	6140.9	6174.7	5843.4	5388.8	4953.5	4541.2	4203.9	4009.3	3922.2	3878.7	3873.8
22.5°	6330.6	6294.4	5785.4	5199.0	4650.0	4181.0	3906.4	3815.8	3794.0	3784.3	3788.0
25°	6531.4	6420.1	5699.5	4951.1	4266.8	3820.6	3688.8	3714.3	3743.2	3739.6	3739.6
27.5°	6752.6	6548.3	5567.8	4622.2	3842.4	3525.6	3541.4	3634.4	3677.9	3676.7	3675.5
30°	7036.7	6693.4	5399.7	4226.9	3445.8	3317.7	3413.2	3526.8	3586.1	3583.7	3584.9
32.5°	7386.1	6852.9	5171.1	3785.5	3159.3	3164.1	3274.1	3386.5	3455.5	3449.4	3450.6
35°	7794.8	7031.9	4861.7	3350.3	2969.5	3042.0	3129.1	3207.6	3272.9	3264.4	3256.0
37.5°	8239.7	7207.2	4450.6	2961.0	2814.7	2928.3	3000.9	3014.2	3044.4	3022.7	3006.9
40°	8662.9	7341.4	3921.0	2641.8	2658.7	2831.6	2878.8	2825.6	2771.2	2763.9	2742.2
42.5°	9031.7	7386.1	3385.3	2386.7	2494.3	2730.1	2759.1	2647.8	2549.9	2504.0	2484.6
45°	9421.0	7401.9	2886.0	2172.6	2335.9	2639.4	2670.8	2522.1	2384.3	2285.1	2252.5
47.5°	9930.0	7515.5	2497.9	2014.3	2215.0	2578.9	2623.7	2421.7	2242.8	2101.4	2071.1
50°	10596.3	7740.4	2182.3	1893.4	2136.4	2539.0	2589.8	2323.8	2126.7	1956.2	1926.1
52.5°	11336.2	7947.1	1927.3	1795.5	2060.2	2468.9	2546.3	2253.7	2017.9	1822.0	1789.4
55°	11853.7	7788.8	1721.7	1693.9	1961.1	2368.6	2485.8	2194.4	1862.0	1691.5	1662.4
57.5°	11952.8	7247.2	1565.7	1588.7	1841.4	2242.8	2392.8	2062.6	1777.3	1634.7	1604.4
60°	11682.0	6492.7	1449.7	1492.0	1713.2	2084.4	2218.7	1969.6	1696.3	1574.2	1548.8
62.5°	11001.3	5720.1	1363.8	1405.0	1593.5	1923.6	2109.8	1871.7	1614.1	1505.3	1479.9
65°	9626.5	4802.4	1281.6	1327.5	1482.3	1784.6	2011.9	1780.9	1533.0	1449.7	1425.5
67.5°	7266.4	3597.0	1204.2	1245.3	1383.2	1663.7	1905.5	1691.5	1454.5	1401.3	1372.3
70°	4278.9	2252.5	1116.0	1159.5	1279.2	1537.9	1791.8	1593.5	1356.6	1332.4	1294.9
72.5°	1991.4	1355.4	1015.6	1058.0	1148.6	1369.8	1645.6	1465.4	1240.5	1187.3	1136.5
75°	1188.5	991.4	897.1	934.6	998.7	1190.9	1461.8	1334.8	1130.4	1060.4	1007.2
77.5°	888.7	758.1	766.6	806.4	858.4	1042.2	1294.9	1232.1	1045.8	991.4	955.1
80°	639.6	575.5	625.1	668.6	723.0	947.9	1240.5	1138.9	945.5	873.0	839.0
82.5°	426.8	413.5	470.3	515.1	568.2	829.4	1165.6	997.5	807.7	715.8	640.8
85°	235.8	249.1	316.8	336.1	382.0	584.0	955.1	801.6	608.1	489.7	467.9
87.5°	97.9	114.9	170.5	164.4	203.1	348.2	628.7	483.7	386.9	289.0	224.9
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)