

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: P318519

Luminaire Tested: **GLEON-SA5B-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21001 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

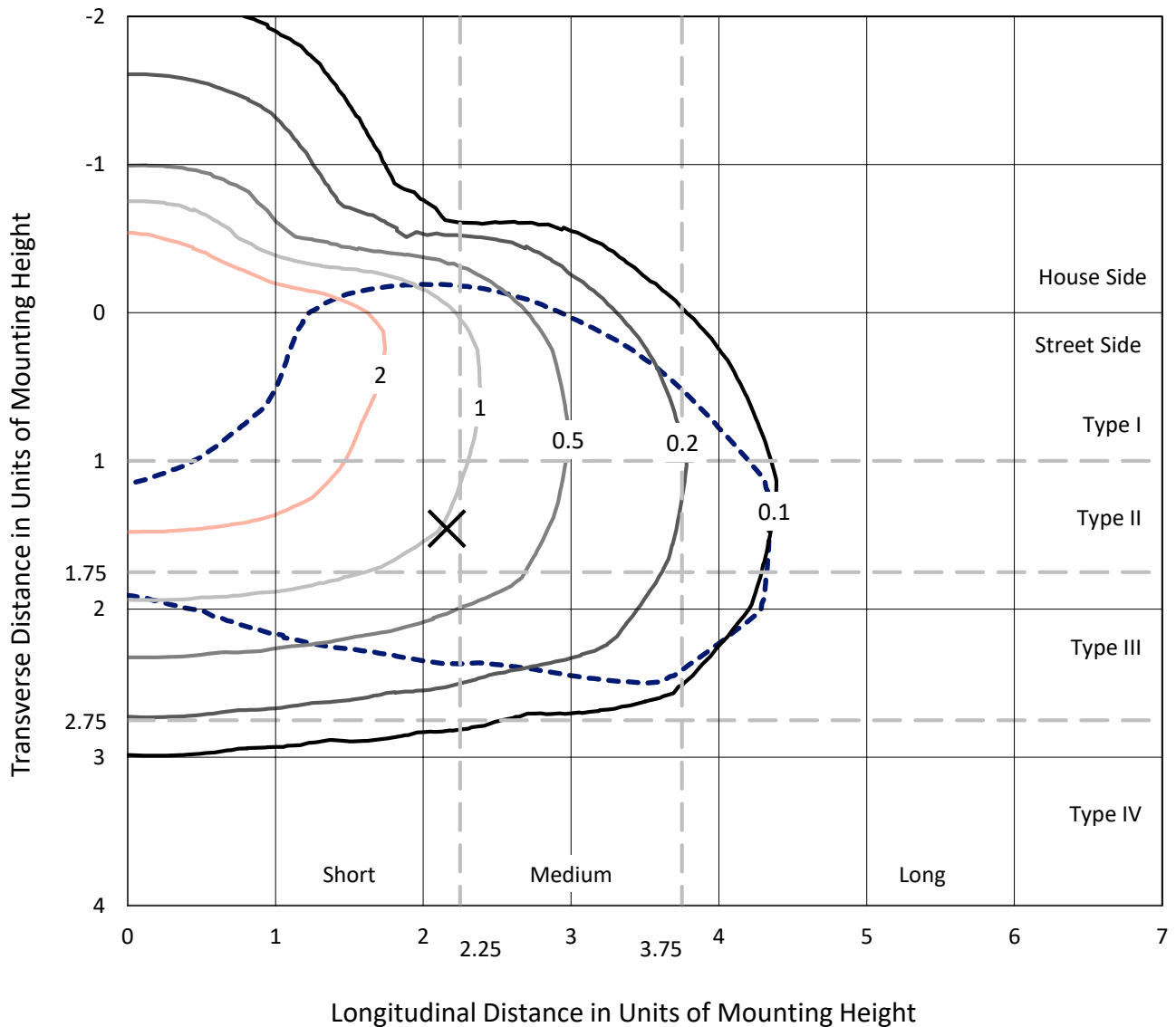
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

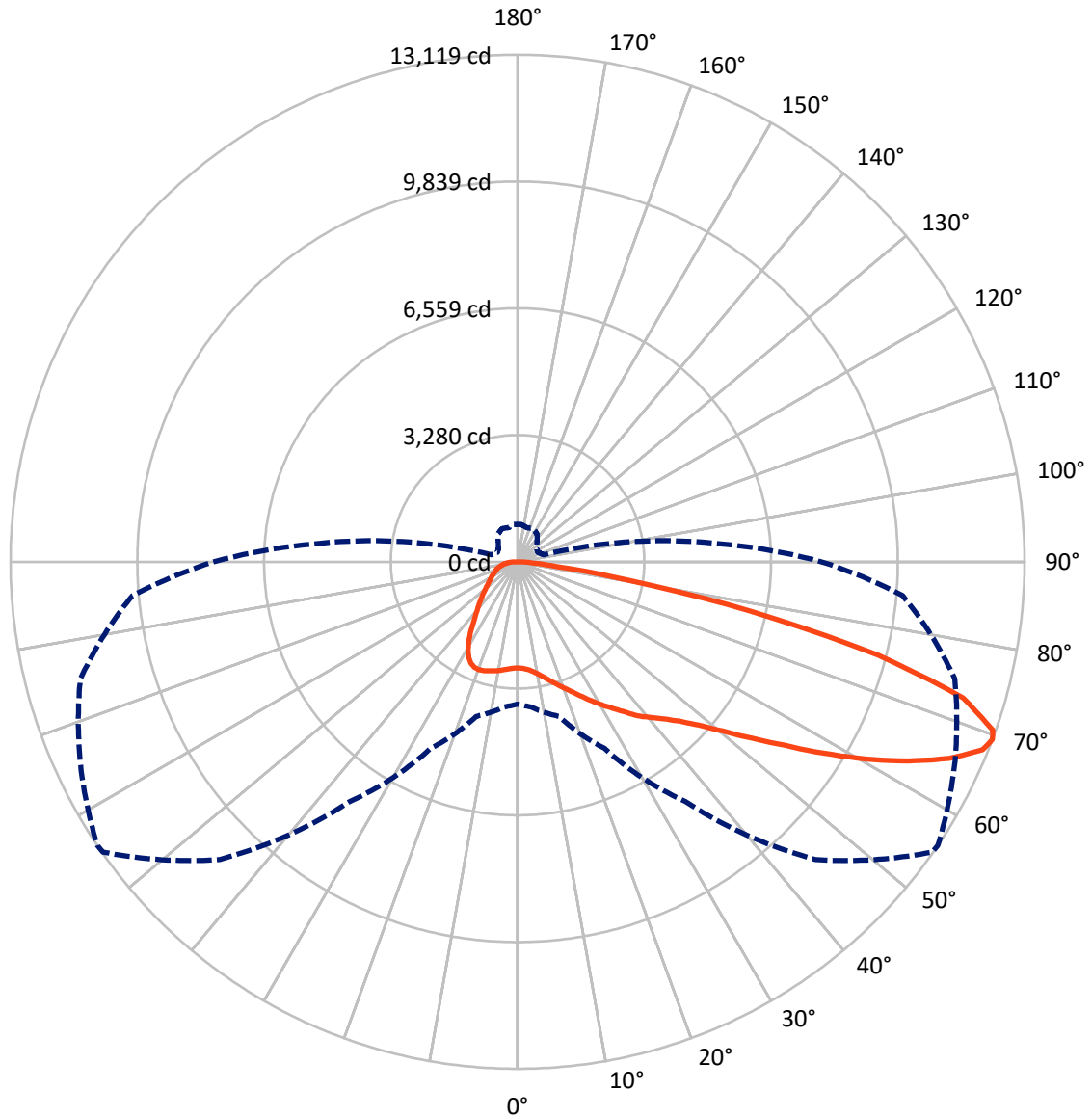
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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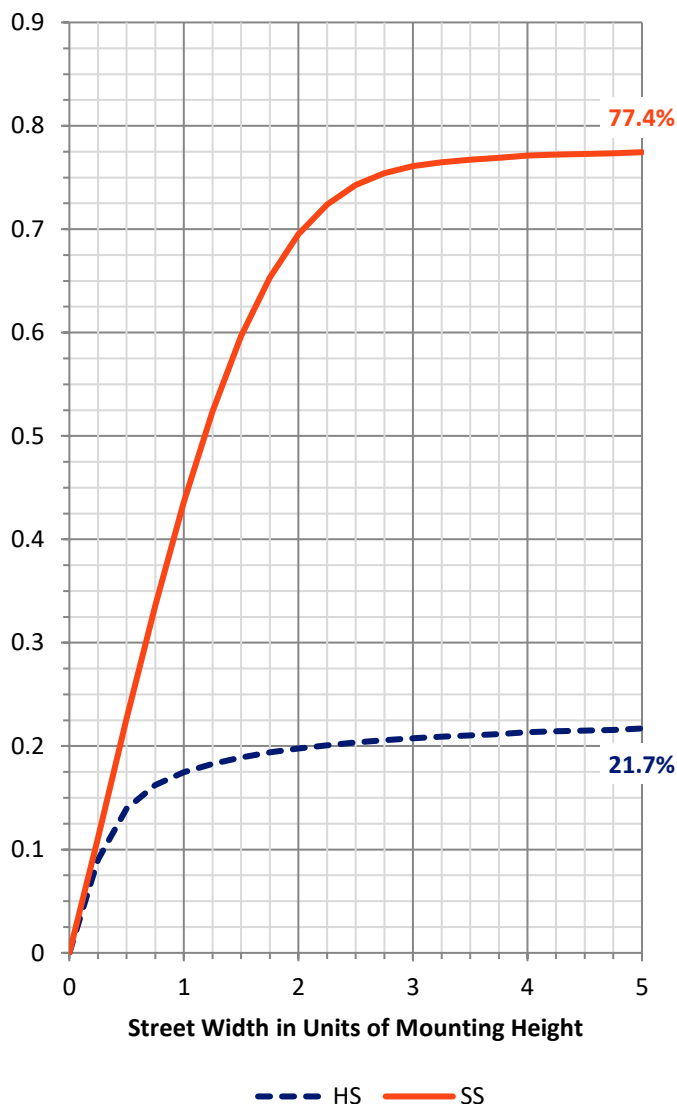
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4676.9	0.0	4676.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16324.1	0.0	16324.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	21001.0	0.0	21001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.7	1.3
10°-20°	867.1	4.1
20°-30°	1513.6	7.2
30°-40°	2174.3	10.4
40°-50°	3009.1	14.3
50°-60°	4408.8	21.0
60°-70°	5375.1	25.6
70°-80°	2971.7	14.2
80°-90°	411.6	2.0
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°	21001.0	100.0
0°-180°	21001.0	100.0

Coefficient of Utilization



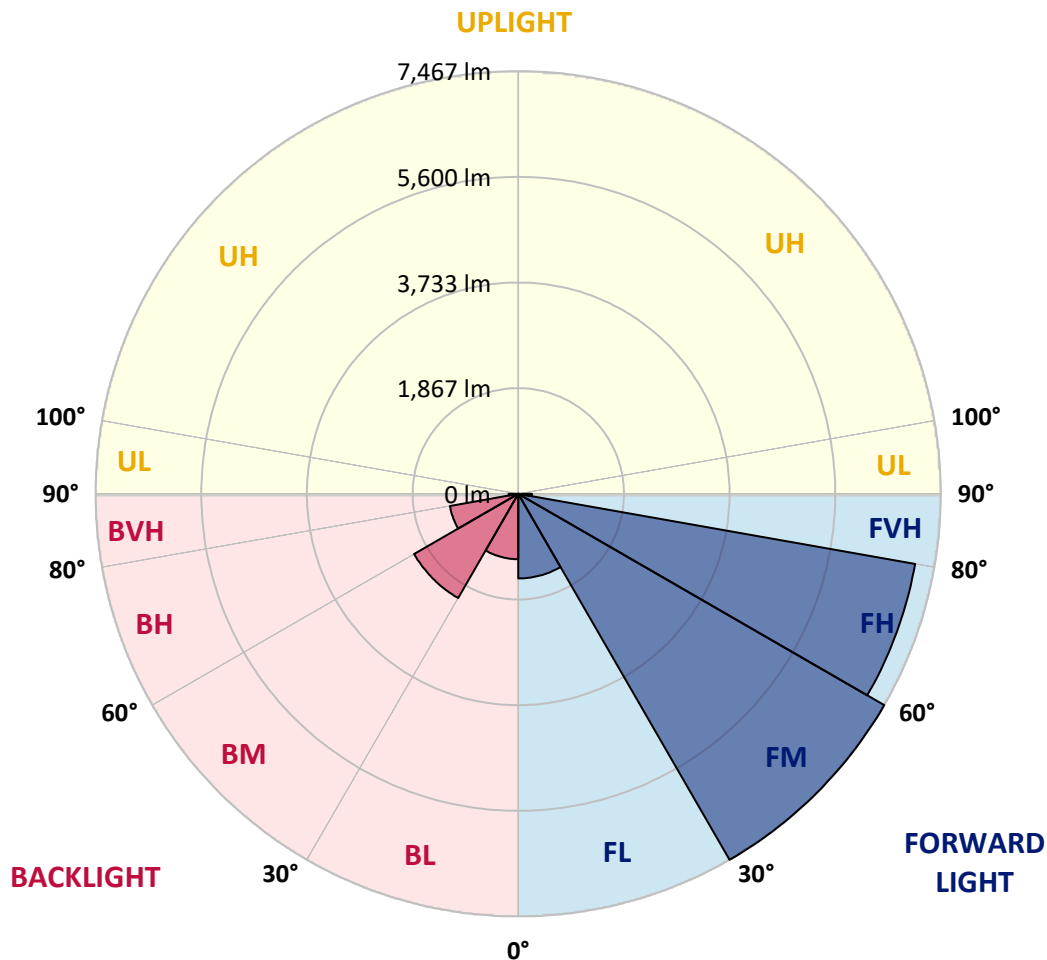
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1494.6	7.1			
FM (30°-60°)	7466.6	35.6			
FH (60°-80°)	7120.4	33.9			G3/7500
FVH (80°-90°)	242.4	1.2			G3/500
BL (0°-30°)	1155.8	5.5	B3/2500		
BM (30°-60°)	2125.5	10.1	B2/2500		
BH (60°-80°)	1226.4	5.8	B3/2500		G3/2500
BVH (80°-90°)	169.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2745.6	2745.6	2745.6	2745.6	2745.6	2745.6	2745.6	2745.6	2745.6	2745.6	2745.6
2.5°	2762.9	2765.8	2763.7	2769.4	2762.9	2767.3	2763.7	2763.7	2761.5	2755.0	2747.7
5°	2806.3	2812.1	2808.5	2814.3	2806.3	2807.8	2801.3	2801.3	2794.8	2781.0	2766.5
7.5°	2874.3	2880.9	2878.0	2883.7	2872.9	2872.9	2864.2	2863.5	2850.5	2828.0	2811.4
10°	2955.4	2964.1	2961.2	2969.8	2961.2	2964.1	2955.4	2955.4	2938.0	2906.2	2885.2
12.5°	3073.3	3084.1	3076.2	3075.5	3071.8	3077.6	3070.4	3069.0	3053.0	3009.6	2980.7
15°	3231.0	3242.6	3225.9	3224.5	3204.2	3202.1	3202.1	3199.9	3189.8	3137.7	3089.9
17.5°	3412.6	3416.2	3401.8	3378.6	3352.6	3335.9	3333.7	3339.5	3339.5	3278.8	3202.8
20°	3590.6	3597.1	3585.5	3559.5	3526.2	3501.6	3484.2	3495.8	3495.1	3422.7	3314.9
22.5°	3784.5	3799.7	3782.3	3749.0	3709.9	3682.5	3652.1	3662.2	3662.9	3573.9	3424.9
25°	4035.5	4021.8	4010.9	3963.9	3908.2	3880.0	3851.7	3861.9	3859.0	3736.7	3538.5
27.5°	4257.6	4260.5	4246.0	4196.1	4131.7	4069.5	4068.1	4074.6	4063.7	3906.0	3645.6
30°	4515.9	4517.3	4497.1	4452.2	4382.1	4301.7	4282.9	4293.8	4270.6	4066.6	3758.4
32.5°	4772.7	4780.0	4757.5	4703.3	4646.8	4549.2	4511.6	4518.8	4460.9	4230.8	3874.9
35°	4997.7	5007.9	5000.6	4964.4	4902.9	4819.0	4774.2	4769.8	4698.2	4432.0	4029.0
37.5°	5227.1	5236.5	5228.5	5198.1	5173.5	5084.5	5060.7	5060.7	4936.2	4637.4	4225.1
40°	5462.9	5477.4	5468.0	5426.0	5405.0	5364.5	5307.4	5293.6	5159.1	4884.1	4544.8
42.5°	5682.1	5700.9	5738.6	5714.0	5671.3	5677.1	5562.0	5554.8	5456.4	5248.8	4946.4
45°	5993.2	6020.7	6084.4	6065.6	6056.9	6025.0	5888.3	5881.8	5844.2	5739.3	5444.8
47.5°	6332.5	6370.1	6485.2	6488.8	6582.1	6522.1	6336.1	6313.7	6322.4	6326.7	6053.3
50°	6645.1	6686.3	6875.1	6964.1	7184.0	7197.1	6899.7	6879.5	6913.5	7013.3	6762.3
52.5°	6894.7	6946.7	7182.6	7457.5	7834.4	7941.5	7593.5	7578.3	7603.7	7775.8	7563.9
55°	7077.7	7134.1	7391.0	7891.6	8493.5	8682.4	8392.2	8377.8	8393.7	8612.9	8435.6
57.5°	7120.4	7134.1	7506.7	8183.9	9049.9	9503.5	9369.6	9340.7	9262.6	9453.6	9397.9
60°	6920.0	6975.0	7411.2	8286.6	9480.3	10313.0	10391.2	10355.0	10135.8	10292.1	10247.2
62.5°	6513.4	6611.8	7054.5	8130.3	9648.9	10974.3	11393.2	11349.8	10972.1	11073.4	10857.8
65°	5849.2	5891.2	6356.4	7591.4	9434.8	11397.5	12286.7	12265.0	11789.6	11631.2	10970.7
67.5°	4661.3	4740.2	5135.2	6464.9	8558.6	11347.6	12977.6	12975.4	12323.6	11838.1	10570.6
69°	3682.5	3764.2	4140.4	5325.5	7573.3	10891.1	13093.3	13118.7	12474.1	11712.2	9999.1
70°	2935.8	3030.6	3288.9	4485.5	6698.6	10289.2	12997.1	13042.7	12445.1	11504.6	9471.7
72.5°	1249.4	1326.1	1509.9	2312.2	4082.5	7683.2	11883.7	12055.9	11774.5	10529.4	7827.9
75°	545.5	569.4	652.6	942.7	1812.3	4181.7	9309.6	9627.9	10067.8	8900.1	5831.2
77.5°	399.4	409.5	455.1	553.5	813.2	1579.3	5986.7	6171.9	7260.7	6476.5	3576.8
80°	308.9	316.2	351.6	406.6	531.0	638.8	2730.4	2889.5	4082.5	3326.5	1489.6
82.5°	246.0	251.0	275.6	299.5	366.8	387.1	906.5	1005.6	1507.0	918.8	394.3
85°	228.6	234.4	243.1	218.5	235.1	227.2	392.1	410.2	455.1	361.0	165.0
87.5°	103.5	122.3	240.9	170.0	125.2	99.8	160.6	167.8	188.8	189.5	73.1
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°	2745.6	2745.6	2745.6	2745.6	2745.6	2745.6	2745.6	2745.6	2745.6	2745.6	2745.6
2.5°	2752.1	2749.9	2753.5	2744.8	2755.7	2755.0	2751.4	2752.8	2760.0	2759.3	2760.0
5°	2768.7	2767.3	2771.6	2765.1	2778.1	2782.5	2783.2	2789.7	2797.7	2799.8	2799.8
7.5°	2810.7	2810.7	2812.8	2804.2	2812.8	2812.1	2808.5	2815.0	2823.0	2823.7	2823.0
10°	2883.0	2883.7	2880.1	2857.7	2850.5	2830.9	2812.8	2813.6	2823.7	2831.7	2833.8
12.5°	2974.2	2971.3	2955.4	2914.1	2883.7	2844.0	2825.1	2824.4	2834.6	2841.1	2843.2
15°	3078.4	3070.4	3029.2	2961.9	2908.3	2869.3	2838.9	2831.7	2825.9	2818.6	2819.4
17.5°	3176.8	3158.7	3089.9	2996.6	2940.2	2888.1	2829.5	2782.5	2749.9	2731.1	2725.3
20°	3276.6	3241.1	3142.0	3029.2	2957.5	2862.8	2749.9	2654.4	2595.1	2567.6	2562.5
22.5°	3367.7	3310.6	3190.5	3063.2	2943.8	2777.4	2600.1	2461.2	2378.8	2341.9	2344.8
25°	3456.7	3377.2	3241.1	3087.0	2874.3	2626.9	2391.8	2221.0	2125.6	2084.3	2082.9
27.5°	3534.9	3444.4	3296.1	3067.5	2744.8	2412.8	2145.1	1978.7	1899.1	1863.7	1857.9
30°	3624.6	3529.1	3369.2	2993.0	2555.3	2165.3	1904.2	1787.0	1730.5	1695.1	1688.6
32.5°	3733.8	3644.1	3429.2	2857.7	2312.9	1907.1	1716.1	1634.3	1583.0	1543.2	1535.9
35°	3893.0	3796.0	3444.4	2663.8	2046.7	1703.0	1577.9	1494.0	1424.5	1373.1	1368.1
37.5°	4092.7	3986.3	3409.7	2412.8	1788.4	1570.7	1462.9	1359.4	1269.0	1196.6	1185.0
40°	4380.6	4220.0	3313.5	2123.4	1598.1	1468.6	1350.7	1232.8	1120.7	1036.0	1019.4
42.5°	4726.4	4494.2	3165.9	1835.4	1458.5	1365.2	1239.3	1093.2	986.1	926.0	917.4
45°	5166.3	4779.2	2961.2	1583.7	1321.1	1261.7	1119.2	984.6	918.1	874.0	866.7
47.5°	5668.4	5099.0	2746.3	1378.9	1204.6	1164.8	1023.0	936.2	883.4	848.6	842.1
50°	6285.5	5460.0	2518.4	1211.1	1087.4	1048.3	977.4	909.4	867.4	840.7	834.2
52.5°	6981.5	5867.3	2354.2	1078.7	990.4	962.2	953.5	894.9	860.9	840.7	834.2
55°	7731.0	6281.9	2176.9	967.3	906.5	914.5	937.6	896.4	873.2	848.6	839.2
57.5°	8481.2	6710.2	1979.4	873.2	839.9	879.0	926.8	899.3	879.7	855.9	847.2
60°	9074.5	6981.5	1673.4	794.4	787.1	839.9	900.7	877.6	852.2	853.0	851.5
62.5°	9351.6	6967.0	1335.5	724.2	734.3	787.1	858.8	843.6	822.6	850.8	853.0
65°	9196.0	6619.7	1039.6	660.5	677.9	732.2	815.3	826.9	834.2	888.4	895.7
67.5°	8543.4	5944.0	805.2	604.8	626.5	694.5	819.7	900.7	910.1	967.3	966.6
69°	7868.4	5310.3	699.6	575.9	601.2	703.9	876.1	947.7	912.3	973.1	964.4
70°	7302.7	4808.9	643.2	556.3	589.6	720.6	913.7	947.0	901.4	953.5	939.1
72.5°	5624.2	3459.6	545.5	520.2	550.6	689.5	924.6	926.0	876.1	886.2	861.7
75°	3857.5	2186.3	476.0	471.0	491.2	621.5	889.9	884.8	810.3	795.8	775.6
77.5°	2127.0	1110.5	404.4	424.0	437.7	550.6	808.8	801.6	740.1	709.7	702.5
80°	820.4	486.2	341.5	376.9	385.6	476.8	709.0	702.5	651.1	612.1	601.2
82.5°	309.6	254.7	282.2	326.3	323.4	393.6	600.5	596.9	546.9	489.8	472.4
85°	143.2	152.7	223.6	269.1	248.1	291.6	480.4	486.9	426.1	358.1	358.1
87.5°	60.8	85.4	158.4	203.3	167.1	196.8	352.3	336.4	308.9	214.1	201.1
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)