

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: P317878

Luminaire Tested: **GLEON-SA4B-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17326 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

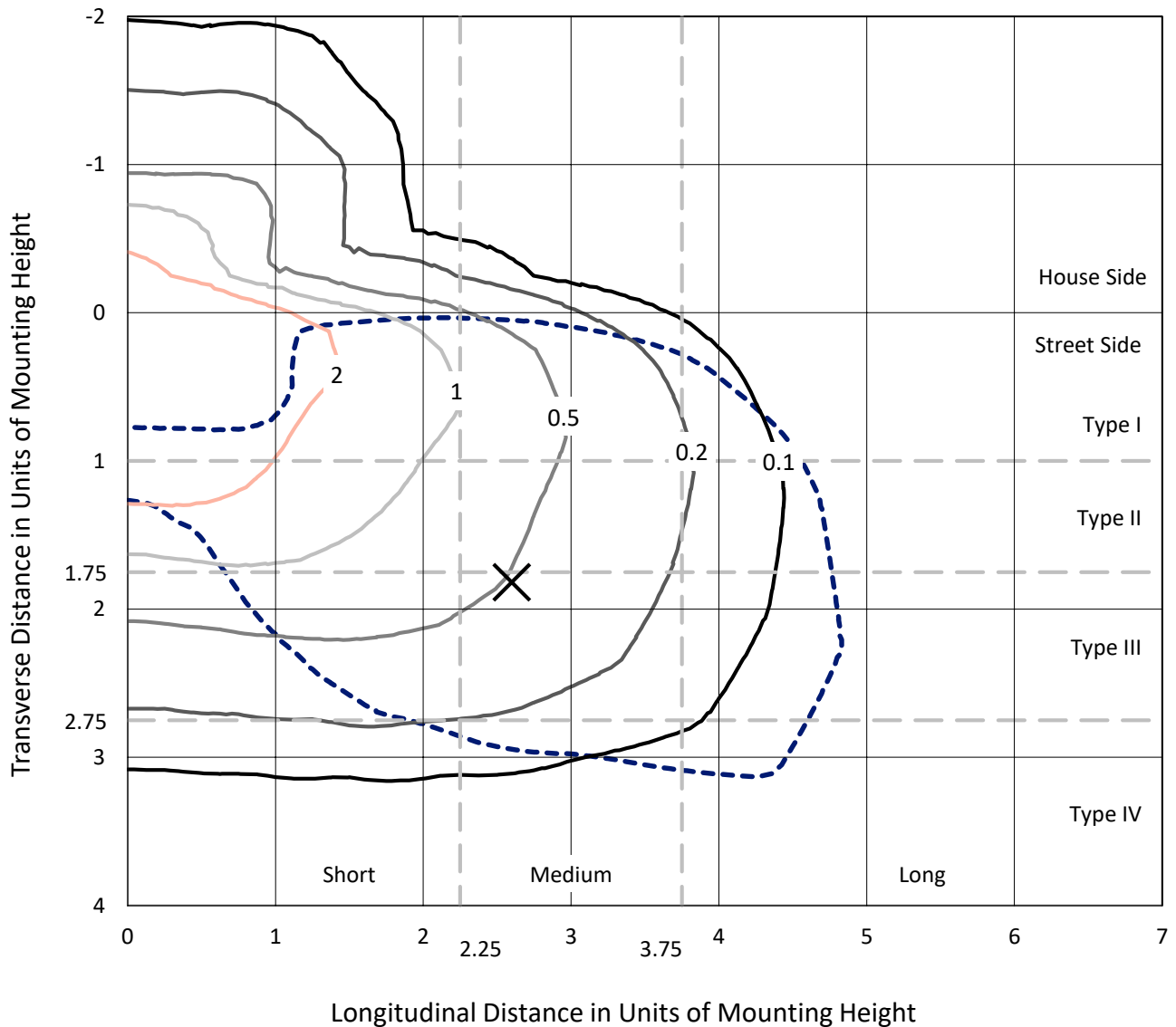
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA4B-827-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

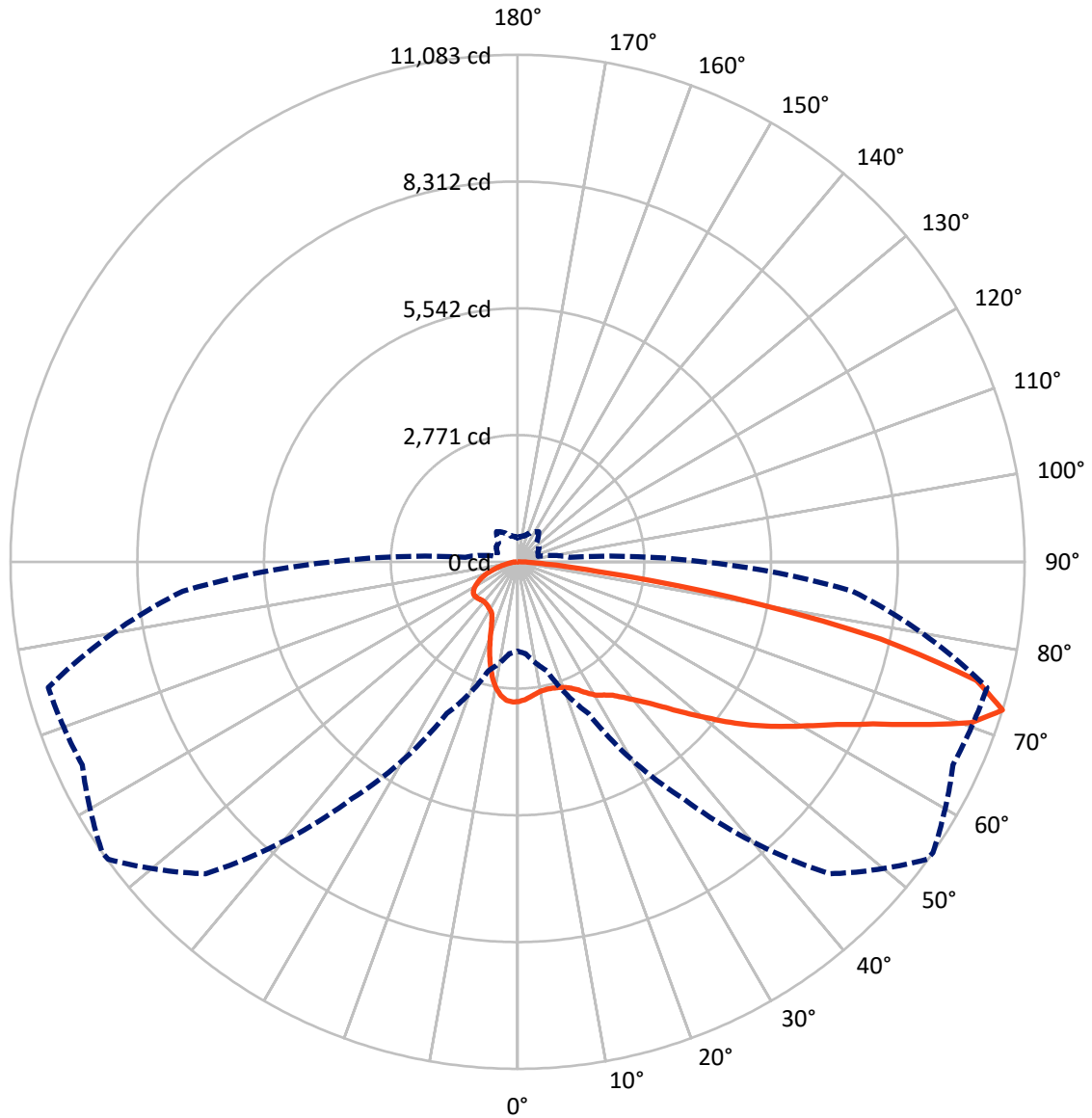
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317878
CATALOG NUMBER: GLEON-SA4B-827-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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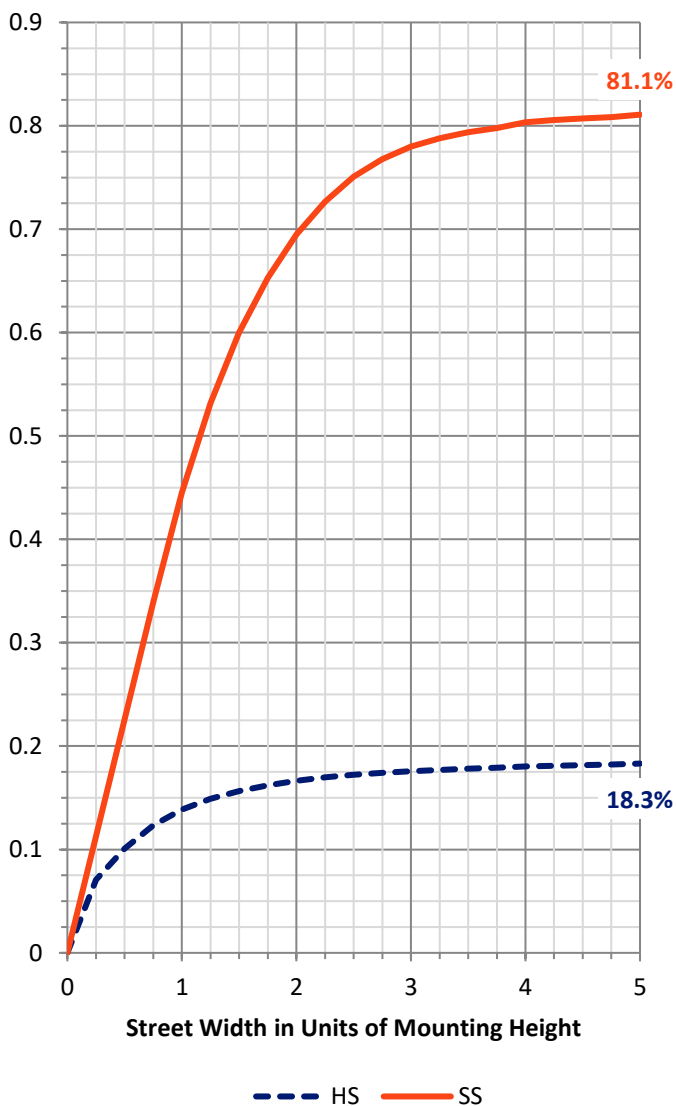
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3220.3	0.0	3220.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14105.7	0.0	14105.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	17326.0	0.0	17326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.6
10°-20°	736.2	4.2
20°-30°	1213.8	7.0
30°-40°	1795.6	10.4
40°-50°	2506.2	14.5
50°-60°	3263.2	18.8
60°-70°	4010.4	23.1
70°-80°	3143.7	18.1
80°-90°	380.4	2.2
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°	17326.0	100.0
0°-180°	17326.0	100.0

Coefficient of Utilization

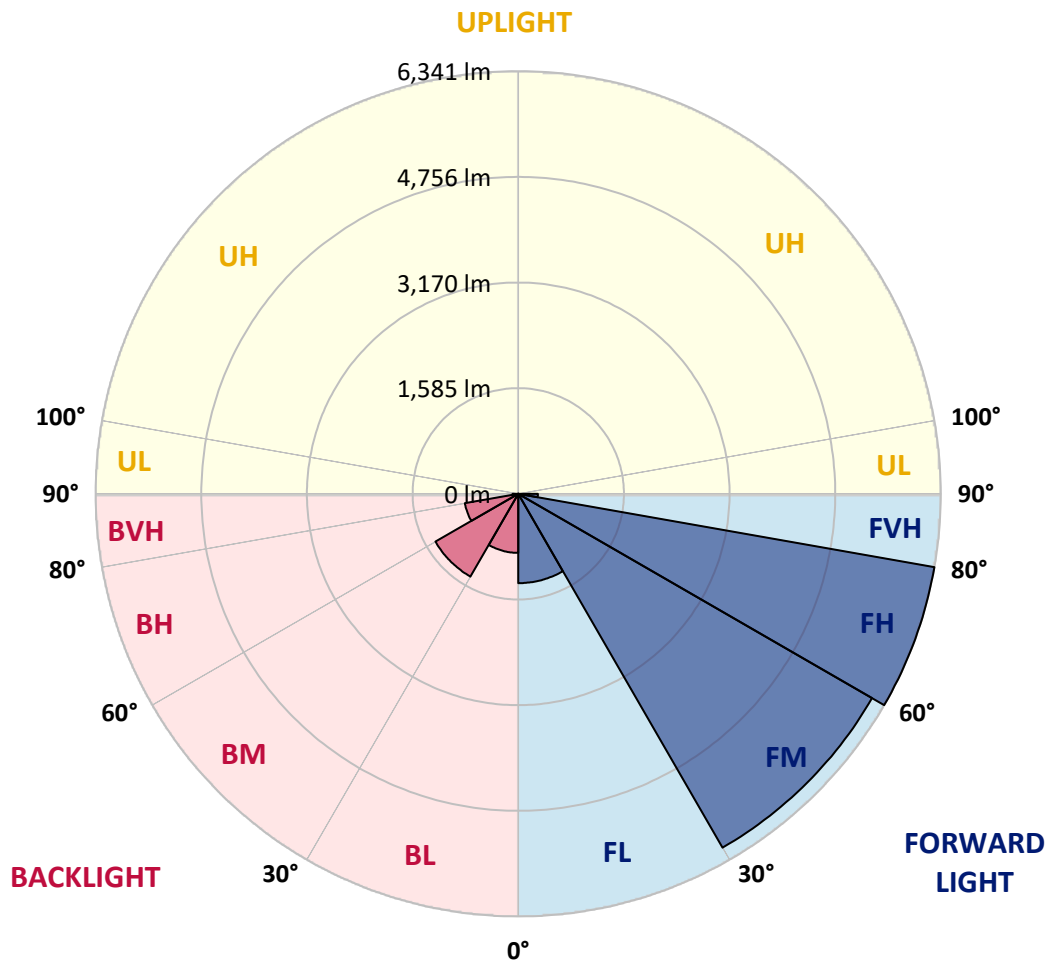


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1340.5	7.7			
FM (30°-60°)	6130.3	35.4			
FH (60°-80°)	6340.7	36.6			G3/7500
FVH (80°-90°)	294.1	1.7			G3/500
BL (0°-30°)	886.0	5.1	B2/1000		
BM (30°-60°)	1434.7	8.3	B2/2500		
BH (60°-80°)	813.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	86.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9
2.5°	2956.4	2949.4	2958.2	2970.5	2984.0	3002.1	3012.6	3017.3	3035.5	3042.5	3057.7
5°	2819.5	2816.0	2830.6	2851.7	2881.5	2923.7	2957.6	2964.1	3012.0	3046.0	3077.0
7.5°	2720.0	2720.0	2737.0	2762.2	2795.5	2852.3	2900.3	2909.0	2990.4	3063.5	3120.9
10°	2641.0	2644.0	2663.8	2693.7	2732.9	2793.2	2857.0	2866.9	2984.5	3104.5	3195.8
12.5°	2588.4	2595.4	2613.5	2640.4	2689.0	2762.2	2842.9	2856.4	2996.8	3163.0	3285.9
15°	2621.7	2633.4	2635.2	2646.3	2673.2	2752.8	2851.1	2865.2	3023.2	3222.7	3388.3
17.5°	2768.0	2772.1	2754.0	2730.6	2717.7	2768.6	2875.7	2890.3	3054.8	3281.8	3486.6
20°	2990.4	2988.0	2948.8	2885.6	2820.1	2828.3	2916.1	2931.3	3097.5	3333.9	3585.0
22.5°	3271.3	3263.1	3202.8	3086.4	2974.6	2927.8	2986.9	2999.8	3161.9	3408.2	3690.3
25°	3611.9	3593.7	3514.1	3357.9	3193.5	3072.9	3093.4	3105.7	3255.5	3491.3	3786.9
27.5°	3971.2	3953.1	3851.8	3662.8	3443.9	3256.1	3240.3	3250.8	3362.0	3552.8	3858.2
30°	4346.9	4327.6	4235.1	4023.3	3709.6	3445.7	3377.2	3381.3	3436.9	3586.1	3916.8
32.5°	4724.3	4706.2	4602.6	4356.8	3998.1	3649.3	3476.1	3470.8	3482.0	3620.7	3982.9
35°	5107.1	5114.1	4993.0	4720.8	4317.6	3875.8	3593.2	3582.0	3557.5	3691.5	4076.5
37.5°	5516.7	5512.0	5355.2	5070.8	4651.8	4121.6	3761.1	3759.3	3674.5	3825.5	4223.4
40°	5790.6	5793.5	5698.1	5428.9	4989.4	4393.7	3976.5	3972.4	3861.2	4026.2	4415.9
42.5°	5897.7	5917.0	5941.6	5770.7	5342.9	4709.1	4233.4	4227.5	4121.6	4314.1	4642.4
45°	5905.3	5943.9	6096.1	6074.4	5701.1	5070.2	4561.7	4545.3	4469.2	4696.8	4912.8
47.5°	5839.7	5879.5	6132.3	6255.2	6021.2	5451.2	4945.6	4932.7	4867.1	5175.5	5205.4
50°	5696.4	5734.4	6057.4	6343.6	6284.5	5817.5	5388.0	5354.0	5318.9	5728.6	5540.1
52.5°	5427.8	5500.9	5957.4	6364.7	6441.9	6142.9	5853.2	5831.0	5850.3	6312.0	5875.4
55°	4791.6	4873.6	5699.3	6347.1	6558.4	6416.2	6318.4	6317.3	6417.3	6924.1	6235.3
57.5°	4435.3	4493.2	5173.8	6317.3	6696.5	6687.7	6779.0	6790.1	6985.0	7590.7	6612.2
60°	4233.9	4294.8	4907.5	6206.7	6910.7	7038.8	7248.9	7271.2	7562.0	8328.6	7065.7
62.5°	4050.8	4117.5	4742.5	5981.4	7162.9	7540.9	7811.9	7831.8	8173.0	9087.0	7504.1
65°	3737.7	3813.2	4500.8	5833.3	7392.3	8195.8	8527.6	8541.0	8874.6	9881.7	7839.4
67.5°	3295.3	3364.3	4044.9	5506.2	7562.0	8991.1	9479.1	9486.7	9570.4	10443.0	8010.9
70°	2778.5	2804.9	3395.4	4830.9	7361.3	9734.9	10522.0	10523.7	10204.8	10802.3	7982.8
72.5°	1952.2	2014.3	2464.9	3656.9	6326.1	9644.2	11063.3	11083.2	10499.7	10620.9	7344.9
75°	1197.3	1262.9	1546.1	2216.2	4013.3	7584.8	10221.8	10359.9	9946.7	9469.8	6000.1
77.5°	800.6	825.1	1008.9	1292.1	1818.2	4363.9	7858.7	8118.5	8263.1	6906.0	3837.2
80°	446.5	493.3	668.9	802.9	808.8	1734.0	4712.1	4772.9	4597.4	2749.9	1183.9
82.5°	236.4	262.2	446.5	471.7	441.2	580.5	1756.2	1758.0	1468.9	737.4	351.7
85°	183.2	204.8	306.1	287.9	225.3	257.5	579.4	611.0	499.8	302.0	114.7
87.5°	91.3	113.5	207.7	182.6	88.4	73.7	207.2	221.2	197.2	118.2	41.5
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°	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9	3055.9
2.5°	3063.5	3068.8	3075.2	3068.2	3065.9	3056.5	3040.7	3037.2	3029.0	3029.6	3034.3
5°	3090.5	3099.2	3095.7	3068.8	3036.6	2991.6	2944.7	2905.0	2878.6	2876.9	2875.1
7.5°	3142.0	3147.8	3120.3	3043.6	2953.5	2849.4	2751.0	2665.0	2612.9	2600.1	2597.1
10°	3222.7	3221.5	3146.1	2991.6	2811.9	2625.8	2467.8	2348.4	2278.8	2258.3	2253.0
12.5°	3312.8	3299.4	3154.8	2896.8	2611.8	2353.7	2153.5	2020.7	1948.1	1924.7	1918.9
15°	3405.9	3372.5	3133.2	2755.1	2366.0	2060.5	1850.4	1727.5	1688.3	1675.4	1673.1
17.5°	3492.5	3428.1	3071.1	2563.2	2085.7	1768.5	1604.6	1555.5	1564.8	1581.8	1582.4
20°	3577.4	3465.6	2971.7	2320.9	1790.1	1528.0	1472.4	1508.7	1553.1	1587.7	1592.3
22.5°	3661.0	3491.9	2843.5	2041.2	1525.6	1392.8	1432.0	1498.1	1549.0	1586.5	1592.9
25°	3731.3	3498.3	2666.8	1742.7	1341.9	1341.9	1412.7	1475.3	1525.6	1562.5	1568.9
27.5°	3757.0	3455.0	2417.5	1466.5	1249.4	1318.5	1385.8	1437.8	1480.6	1519.8	1526.8
30°	3767.0	3374.9	2129.6	1244.7	1211.4	1293.3	1349.5	1394.0	1434.3	1471.2	1477.6
32.5°	3768.7	3278.3	1824.1	1118.9	1185.0	1267.0	1304.4	1343.6	1386.9	1401.6	1403.9
35°	3779.8	3164.2	1502.2	1054.5	1160.5	1242.4	1272.2	1300.3	1230.1	1235.4	1240.0
37.5°	3812.0	3051.3	1233.0	1018.3	1144.7	1229.5	1265.2	1163.4	1108.4	1095.5	1093.7
40°	3872.3	2930.7	1033.5	989.0	1138.8	1236.0	1220.1	1086.1	991.3	920.5	910.0
42.5°	3956.0	2800.8	905.9	969.7	1142.9	1267.0	1157.5	1011.8	854.4	808.8	802.9
45°	4050.2	2664.4	836.8	956.2	1156.9	1291.0	1144.7	912.9	790.6	756.1	753.2
47.5°	4141.5	2497.6	801.1	950.4	1176.3	1271.6	1090.2	882.5	760.2	742.0	743.8
50°	4246.2	2347.3	779.5	943.9	1193.2	1259.4	1028.8	866.7	748.5	770.7	794.1
52.5°	4334.6	2191.6	760.2	931.1	1199.7	1237.7	1013.0	869.6	748.5	791.2	813.4
55°	4439.4	2074.0	737.9	904.1	1187.4	1176.3	1001.9	887.2	757.3	730.3	732.7
57.5°	4574.5	2035.3	713.4	862.0	1146.4	1086.7	996.6	904.1	752.0	735.0	740.9
60°	4761.8	2076.3	703.4	807.0	1082.6	1016.5	997.2	895.4	715.1	685.9	686.4
62.5°	4940.3	2121.9	702.8	772.5	1004.2	953.9	983.7	866.7	696.4	679.4	685.9
65°	4998.8	2075.7	674.7	733.8	915.8	879.0	959.1	836.3	682.3	656.6	655.4
67.5°	4920.4	1932.3	618.0	671.2	814.6	791.8	927.0	800.0	660.1	639.0	635.5
70°	4687.5	1612.2	547.8	588.7	699.3	693.5	876.0	757.8	630.3	612.1	596.9
72.5°	4060.7	1148.8	461.7	489.8	569.4	588.1	805.8	702.8	588.1	548.9	525.5
75°	3335.1	850.3	379.2	385.1	432.5	483.4	709.3	638.5	538.4	471.7	453.5
77.5°	2042.4	520.2	302.0	304.3	310.2	385.6	584.0	566.5	475.2	393.3	380.4
80°	661.3	283.8	218.3	229.4	211.8	282.7	451.8	482.2	407.9	328.9	314.8
82.5°	251.6	165.6	147.5	155.1	146.9	189.6	329.5	386.2	334.2	270.4	220.0
85°	121.7	93.6	87.2	97.7	90.7	97.1	210.7	284.4	253.4	176.1	163.9
87.5°	43.3	41.5	33.4	45.1	38.6	34.5	64.4	143.4	167.4	121.1	108.3
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)