

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: P317897

Luminaire Tested: **GLEON-SA3D-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317897
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-SA3D-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17805 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

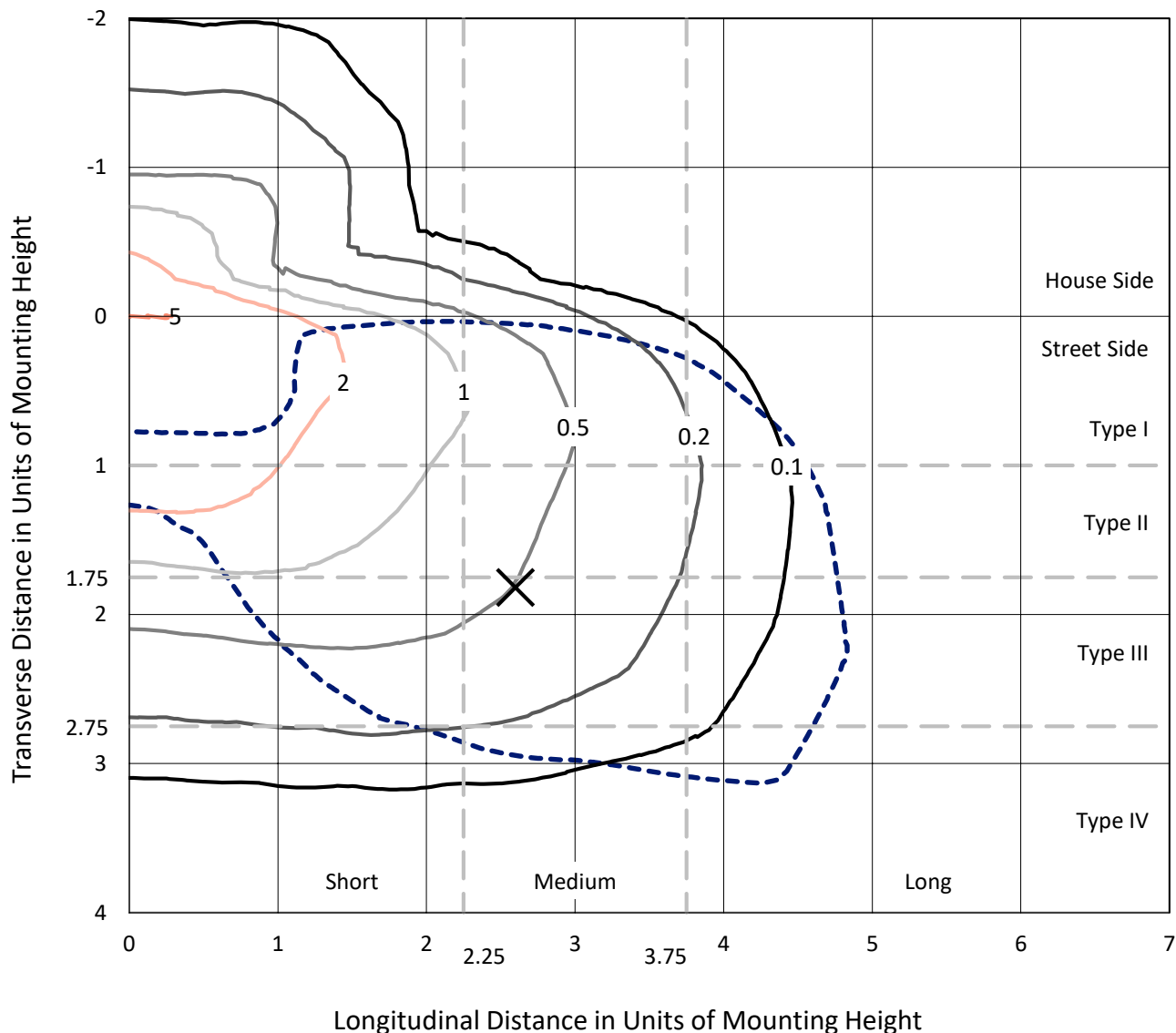
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

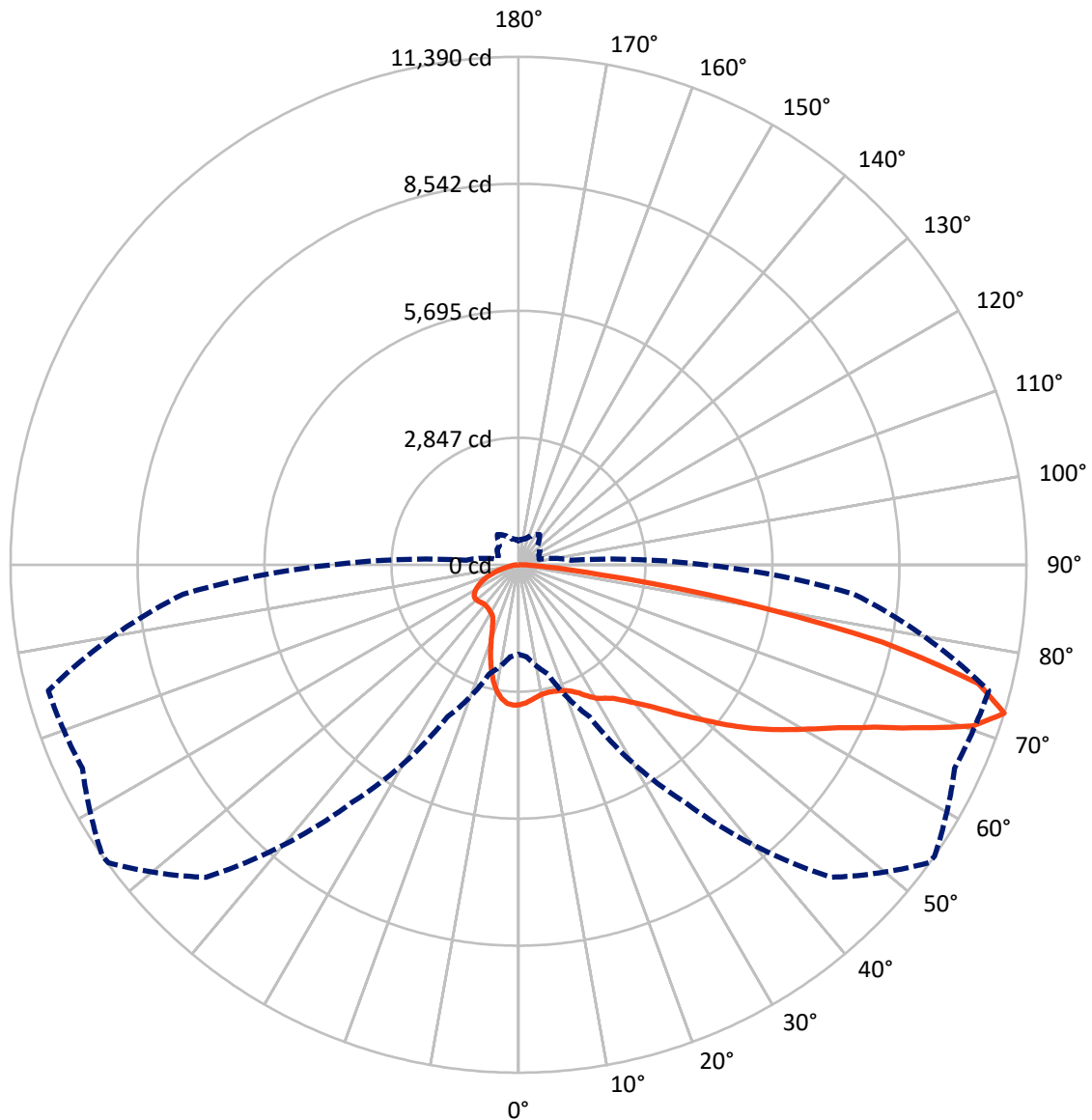
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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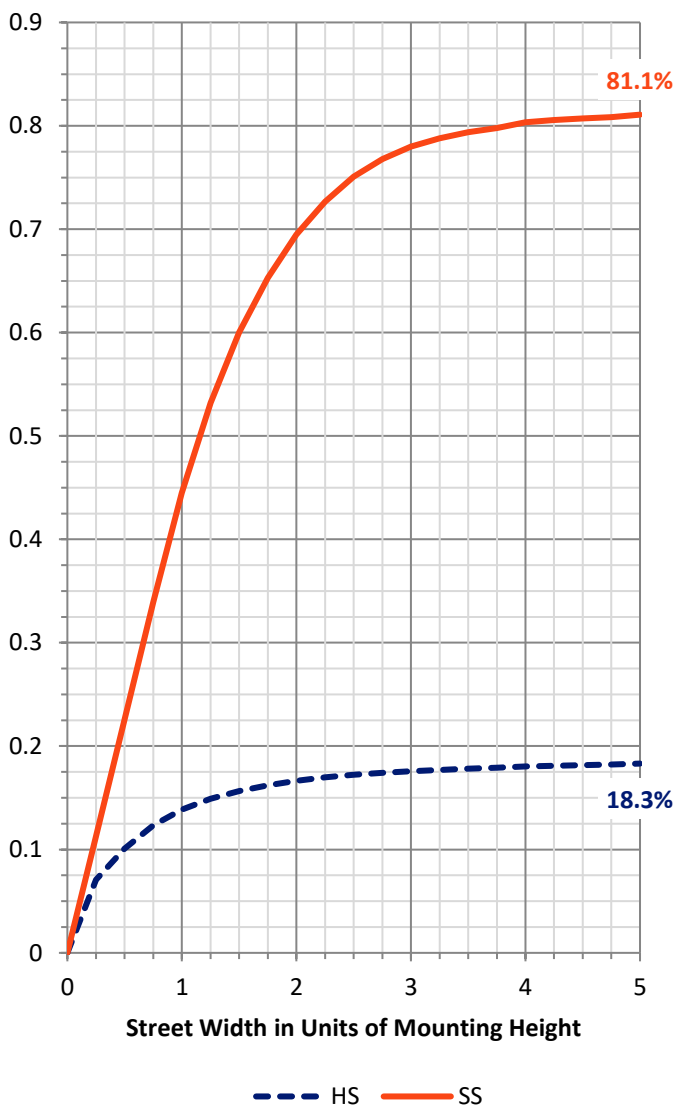
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3309.4	0.0	3309.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14495.6	0.0	14495.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	17805.0	0.0	17805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.2	1.6
10°-20°	756.6	4.2
20°-30°	1247.4	7.0
30°-40°	1845.2	10.4
40°-50°	2575.5	14.5
50°-60°	3353.4	18.8
60°-70°	4121.2	23.1
70°-80°	3230.6	18.1
80°-90°	390.9	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°	17805.0	100.0
0°-180°	17805.0	100.0

Coefficient of Utilization



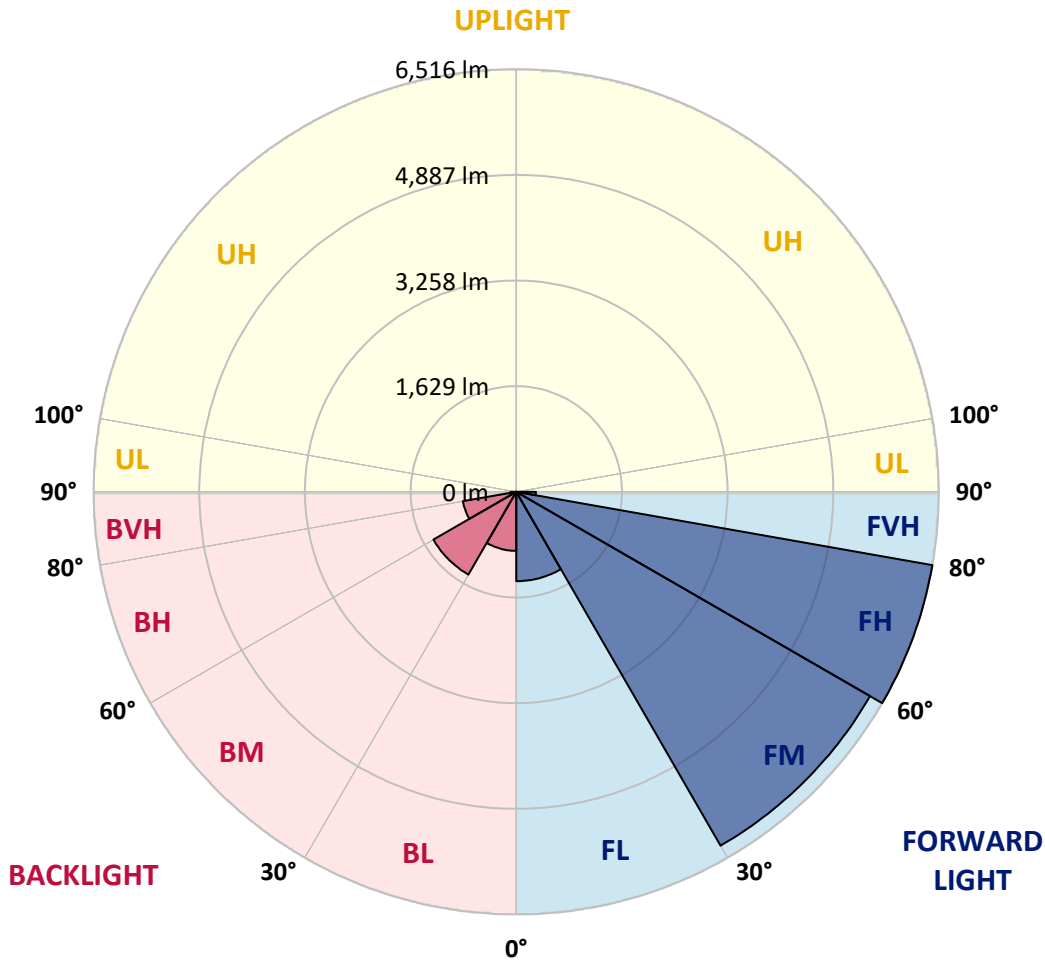
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1377.6	7.7			
FM (30°-60°)	6299.8	35.4			
FH (60°-80°)	6516.0	36.6			G3/7500
FVH (80°-90°)	302.3	1.7			G3/500
BL (0°-30°)	910.5	5.1	B2/1000		
BM (30°-60°)	1474.4	8.3	B2/2500		
BH (60°-80°)	835.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	88.7	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°	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4
2.5°	3038.2	3031.0	3040.0	3052.6	3066.4	3085.1	3095.9	3100.7	3119.4	3126.6	3142.2
5°	2897.5	2893.9	2908.9	2930.5	2961.2	3004.5	3039.4	3046.0	3095.3	3130.2	3162.1
7.5°	2795.2	2795.2	2812.7	2838.5	2872.8	2931.1	2980.5	2989.5	3073.1	3148.2	3207.2
10°	2714.0	2717.0	2737.5	2768.2	2808.5	2870.4	2935.9	2946.2	3067.1	3190.3	3284.1
12.5°	2659.9	2667.1	2685.8	2713.4	2763.4	2838.5	2921.5	2935.3	3079.7	3250.5	3376.8
15°	2694.2	2706.2	2708.0	2719.5	2747.1	2828.9	2929.9	2944.4	3106.7	3311.8	3482.0
17.5°	2844.5	2848.7	2830.1	2806.1	2792.8	2845.1	2955.2	2970.2	3139.2	3372.6	3583.0
20°	3073.1	3070.7	3030.4	2965.4	2898.1	2906.5	2996.7	3012.3	3183.1	3426.1	3684.1
22.5°	3361.7	3353.3	3291.4	3171.7	3056.8	3008.7	3069.5	3082.7	3249.3	3502.5	3792.3
25°	3711.7	3693.1	3611.3	3450.7	3281.7	3157.9	3178.9	3191.5	3345.5	3587.8	3891.5
27.5°	4081.0	4062.3	3958.3	3764.1	3539.1	3346.1	3329.9	3340.7	3454.9	3651.0	3964.9
30°	4467.1	4447.2	4352.2	4134.5	3812.2	3540.9	3470.6	3474.8	3531.9	3685.3	4025.1
32.5°	4855.0	4836.3	4729.9	4477.3	4108.6	3750.2	3572.2	3566.8	3578.2	3720.8	4093.0
35°	5248.3	5255.5	5131.0	4851.4	4437.0	3983.0	3692.5	3681.1	3655.8	3793.5	4189.2
37.5°	5669.2	5664.4	5503.3	5211.0	4780.4	4235.5	3865.1	3863.3	3776.1	3931.2	4340.2
40°	5950.7	5953.7	5855.7	5579.0	5127.4	4515.2	4086.4	4082.2	3967.9	4137.5	4538.0
42.5°	6060.7	6080.6	6105.8	5930.2	5490.6	4839.3	4350.4	4344.4	4235.5	4433.4	4770.8
45°	6068.5	6108.2	6264.6	6242.3	5858.7	5210.4	4687.8	4670.9	4592.8	4826.7	5048.6
47.5°	6001.2	6042.1	6301.9	6428.2	6187.6	5601.9	5082.3	5069.1	5001.7	5318.6	5349.3
50°	5853.9	5892.9	6224.9	6519.0	6458.2	5978.3	5536.9	5502.0	5466.0	5886.9	5693.3
52.5°	5577.8	5653.0	6122.1	6540.6	6620.0	6312.7	6015.0	5992.2	6012.0	6486.5	6037.9
55°	4924.1	5008.3	5856.9	6522.6	6739.7	6593.6	6493.1	6491.9	6594.8	7115.6	6407.7
57.5°	4557.9	4617.4	5316.8	6491.9	6881.6	6872.6	6966.4	6977.8	7178.1	7800.5	6795.0
60°	4351.0	4413.5	5043.2	6378.3	7101.7	7233.4	7449.3	7472.2	7771.1	8558.9	7261.1
62.5°	4162.8	4231.3	4873.6	6146.7	7360.9	7749.4	8027.9	8048.3	8398.9	9338.3	7711.5
65°	3841.0	3918.6	4625.2	5994.6	7596.7	8422.4	8763.3	8777.2	9120.0	10154.9	8056.1
67.5°	3386.4	3457.3	4156.8	5658.4	7771.1	9239.6	9741.2	9749.0	9835.0	10731.7	8232.3
70°	2855.4	2882.4	3489.2	4964.4	7564.8	10004.0	10812.9	10814.7	10486.9	11100.9	8203.5
72.5°	2006.2	2070.0	2533.0	3758.0	6500.9	9910.8	11369.1	11389.6	10790.0	10914.5	7548.0
75°	1230.4	1297.8	1588.9	2277.4	4124.3	7794.5	10504.3	10646.3	10221.7	9731.6	6166.0
77.5°	822.7	847.9	1036.8	1327.9	1868.5	4484.5	8076.0	8343.0	8491.5	7096.9	3943.3
80°	458.9	507.0	687.4	825.1	831.1	1781.9	4842.3	4904.9	4724.5	2825.9	1216.6
82.5°	243.0	269.4	458.9	484.7	453.4	596.6	1804.7	1806.6	1509.5	757.7	361.4
85°	188.2	210.5	314.5	295.9	231.5	264.6	595.4	627.8	513.6	310.3	117.9
87.5°	93.8	116.7	213.5	187.6	90.8	75.8	212.9	227.3	202.7	121.5	42.7
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°	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4
2.5°	3148.2	3153.6	3160.3	3153.0	3150.6	3141.0	3124.8	3121.2	3112.8	3113.4	3118.2
5°	3175.9	3184.9	3181.3	3153.6	3120.6	3074.3	3026.2	2985.3	2958.2	2956.4	2954.6
7.5°	3228.8	3234.8	3206.6	3127.8	3035.2	2928.1	2827.1	2738.7	2685.2	2671.9	2668.9
10°	3311.8	3310.6	3233.0	3074.3	2889.6	2698.4	2536.0	2413.3	2341.8	2320.7	2315.3
12.5°	3404.4	3390.6	3242.1	2976.8	2684.0	2418.8	2213.1	2076.6	2002.0	1977.9	1971.9
15°	3500.0	3465.8	3219.8	2831.3	2431.4	2117.5	1901.6	1775.3	1735.0	1721.8	1719.4
17.5°	3589.1	3522.9	3156.1	2634.1	2143.3	1817.4	1649.0	1598.5	1608.1	1625.5	1626.1
20°	3676.3	3561.4	3053.8	2385.1	1839.6	1570.2	1513.1	1550.4	1596.1	1631.6	1636.4
22.5°	3762.2	3588.4	2922.1	2097.6	1567.8	1431.3	1471.6	1539.5	1591.9	1630.3	1637.0
25°	3834.4	3595.1	2740.5	1790.9	1379.0	1379.0	1451.7	1516.1	1567.8	1605.7	1612.3
27.5°	3860.9	3550.6	2484.3	1507.1	1284.0	1354.9	1424.1	1477.6	1521.5	1561.8	1569.0
30°	3871.1	3468.2	2188.4	1279.1	1244.9	1329.1	1386.8	1432.5	1474.0	1511.9	1518.5
32.5°	3872.9	3368.9	1874.5	1149.8	1217.8	1302.0	1340.5	1380.8	1425.3	1440.3	1442.7
35°	3884.3	3251.7	1543.7	1083.7	1192.5	1276.7	1307.4	1336.3	1264.1	1269.5	1274.3
37.5°	3917.4	3135.6	1267.1	1046.4	1176.3	1263.5	1300.2	1195.5	1139.0	1125.8	1124.0
40°	3979.3	3011.7	1062.0	1016.3	1170.3	1270.1	1253.9	1116.2	1018.7	946.0	935.1
42.5°	4065.3	2878.2	930.9	996.5	1174.5	1302.0	1189.5	1039.8	878.0	831.1	825.1
45°	4162.2	2738.1	860.0	982.7	1188.9	1326.6	1176.3	938.2	812.5	777.0	774.0
47.5°	4256.0	2566.7	823.3	976.6	1208.8	1306.8	1120.4	906.9	781.2	762.6	764.4
50°	4363.6	2412.1	801.0	970.0	1226.2	1294.2	1057.2	890.6	769.2	792.0	816.1
52.5°	4454.4	2252.2	781.2	956.8	1232.8	1271.9	1041.0	893.7	769.2	813.1	835.9
55°	4562.1	2131.3	758.3	929.1	1220.2	1208.8	1029.6	911.7	778.2	750.5	752.9
57.5°	4701.0	2091.6	733.1	885.8	1178.1	1116.8	1024.2	929.1	772.8	755.3	761.4
60°	4893.4	2133.7	722.9	829.3	1112.6	1044.6	1024.8	920.1	734.9	704.8	705.4
62.5°	5076.9	2180.6	722.3	793.8	1032.0	980.3	1010.9	890.6	715.6	698.2	704.8
65°	5137.0	2133.1	693.4	754.1	941.2	903.3	985.7	859.4	701.2	674.8	673.5
67.5°	5056.4	1985.8	635.1	689.8	837.1	813.7	952.6	822.1	678.4	656.7	653.1
70°	4817.1	1656.8	562.9	605.0	718.7	712.6	900.3	778.8	647.7	629.0	613.4
72.5°	4173.0	1180.5	474.5	503.4	585.1	604.4	828.1	722.3	604.4	564.1	540.0
75°	3427.3	873.8	389.7	395.7	444.4	496.7	728.9	656.1	553.3	484.7	466.1
77.5°	2098.8	534.6	310.3	312.7	318.7	396.3	600.2	582.1	488.3	404.1	390.9
80°	679.6	291.7	224.3	235.7	217.7	290.5	464.3	495.5	419.2	338.0	323.5
82.5°	258.6	170.2	151.5	159.4	150.9	194.8	338.6	396.9	343.4	277.8	226.1
85°	125.1	96.2	89.6	100.4	93.2	99.8	216.5	292.3	260.4	181.0	168.4
87.5°	44.5	42.7	34.3	46.3	39.7	35.5	66.2	147.3	172.0	124.5	111.3
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)