

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: P528427

Luminaire Tested: **GALN-SA3C-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11625 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

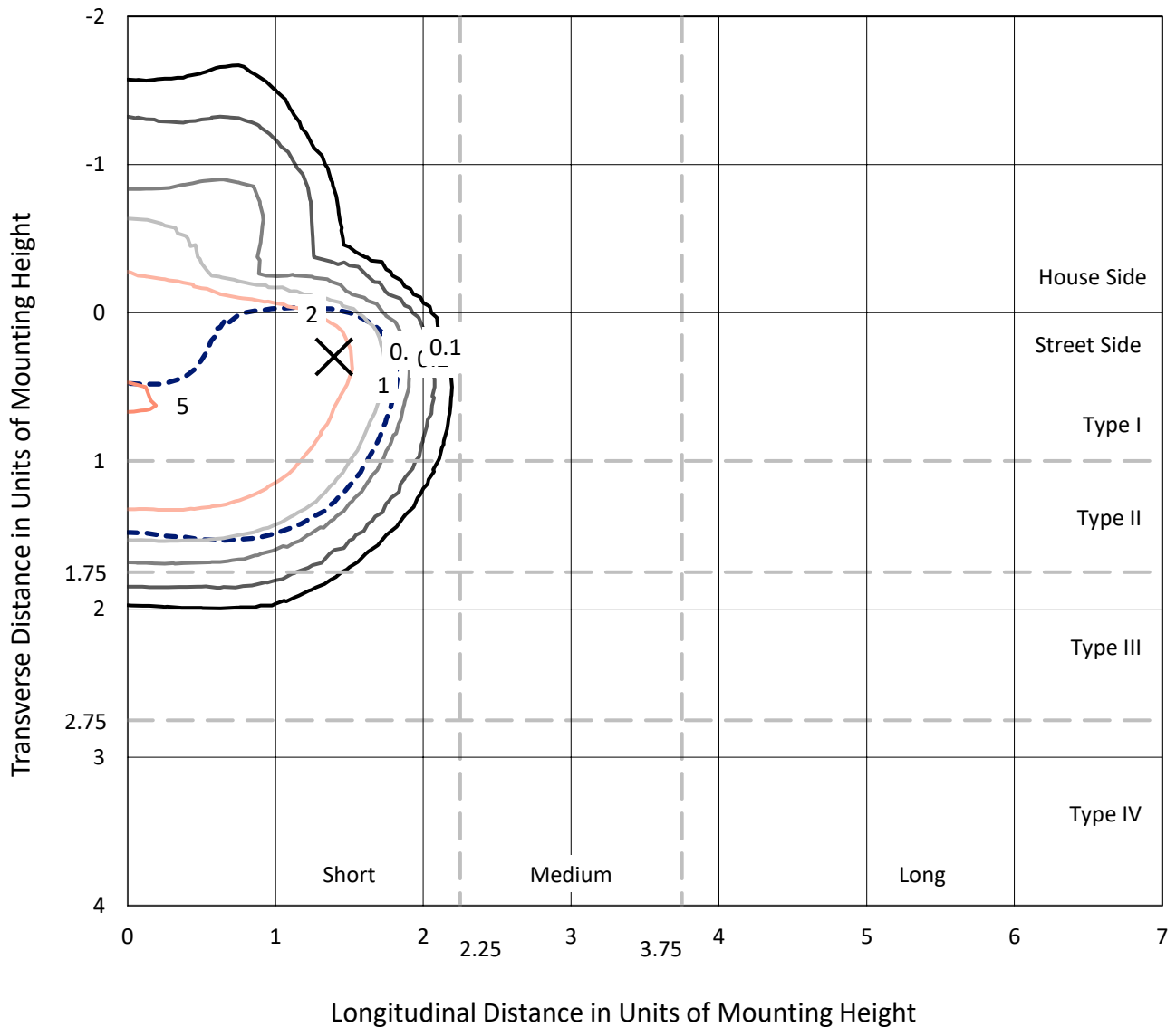
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

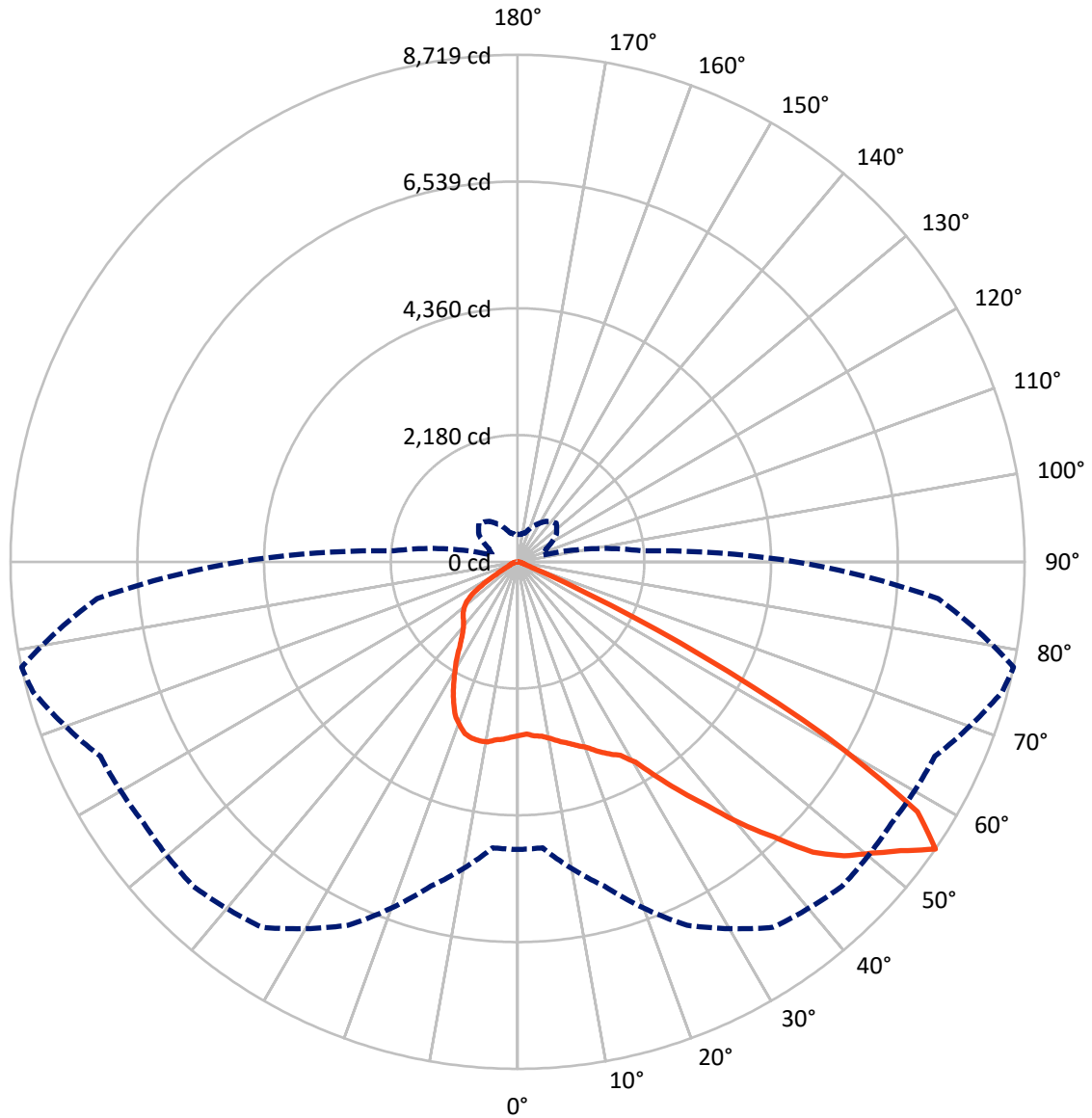
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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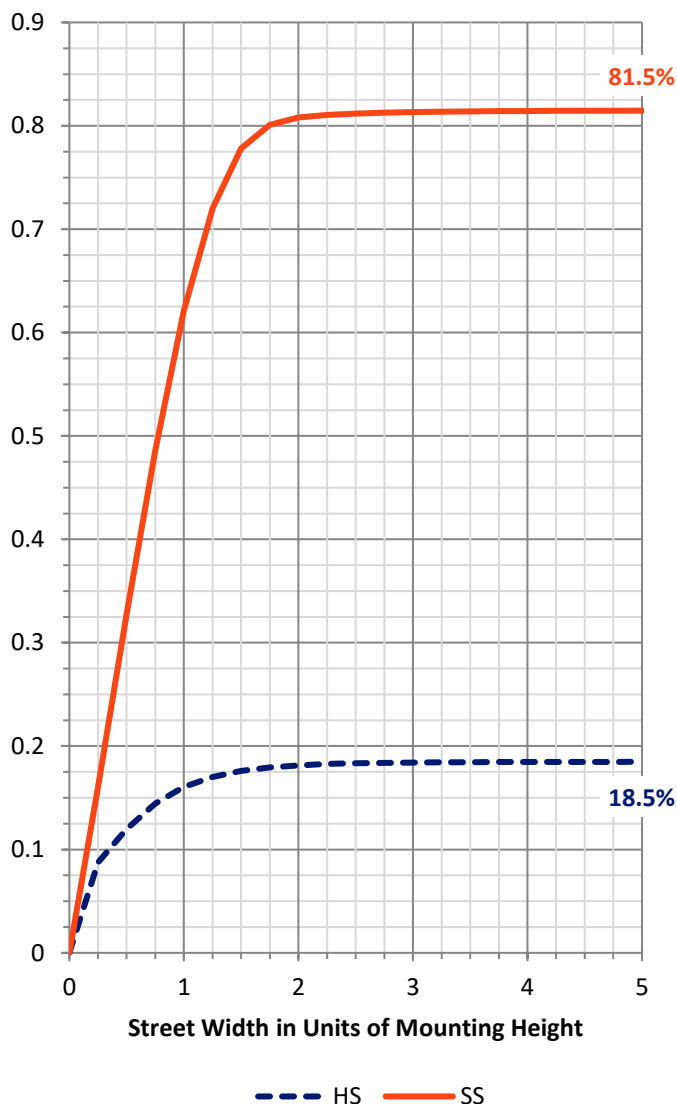
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2159.2	0.0	2159.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9465.8	0.0	9465.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	11625.0	0.0	11625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.5	2.3
10°-20°	705.3	6.1
20°-30°	1236.3	10.6
30°-40°	2038.5	17.5
40°-50°	2966.2	25.5
50°-60°	3361.1	28.9
60°-70°	961.0	8.3
70°-80°	74.6	0.6
80°-90°	15.5	0.1
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°	11625.0	100.0
0°-180°	11625.0	100.0

Coefficient of Utilization



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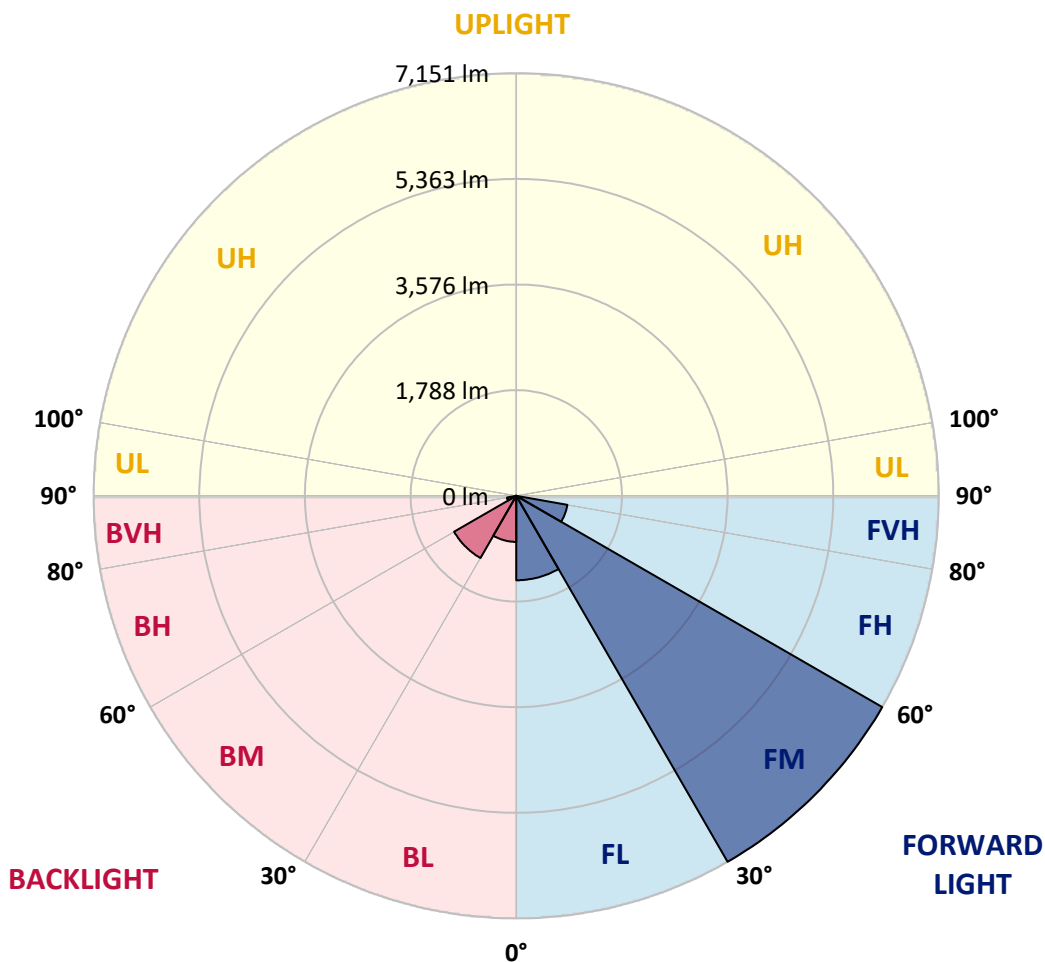
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1429.0	12.3			
FM (30°-60°)	7151.2	61.5			
FH (60°-80°)	878.0	7.6			G1/1800
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	779.1	6.7	B2/1000		
BM (30°-60°)	1214.6	10.4	B2/2500		
BH (60°-80°)	157.6	1.4	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8
2.5°	2810.0	2837.1	2841.2	2874.5	2872.4	2928.5	2945.1	2947.2	2984.6	2965.9	3013.7
5°	2731.1	2716.5	2710.3	2768.5	2785.1	2835.0	2876.6	2901.5	2978.4	3005.4	3055.3
7.5°	2660.4	2660.4	2664.6	2716.5	2710.3	2774.7	2818.4	2895.3	3007.5	3030.4	3090.6
10°	2591.8	2566.9	2598.0	2652.1	2697.8	2726.9	2818.4	2891.1	3022.0	3088.6	3171.7
12.5°	2556.5	2568.9	2573.1	2612.6	2662.5	2749.8	2799.7	2920.2	3126.0	3165.5	3254.8
15°	2778.9	2753.9	2693.7	2658.3	2699.9	2741.5	2866.2	2988.8	3180.0	3236.1	3335.9
17.5°	3036.6	3015.8	2965.9	2870.3	2776.8	2853.7	2951.4	3063.6	3238.2	3321.3	3468.9
20°	3373.3	3340.1	3290.2	3103.1	3022.0	2938.9	3042.8	3175.9	3333.8	3408.6	3560.4
22.5°	3774.4	3774.4	3662.2	3435.7	3267.3	3188.3	3232.0	3308.9	3439.8	3541.7	3691.3
25°	4192.2	4179.7	4077.9	3843.0	3558.3	3464.8	3514.6	3568.7	3604.0	3660.1	3759.9
27.5°	4670.3	4597.5	4468.6	4208.8	3957.3	3776.5	3830.6	3782.8	3739.1	3768.2	3911.6
30°	4994.5	5040.2	4876.0	4626.6	4389.7	4188.1	4198.4	4156.9	3957.3	3998.9	4084.1
32.5°	5331.2	5360.3	5268.8	5131.7	4894.7	4659.9	4574.6	4539.3	4389.7	4408.4	4325.2
35°	5611.8	5667.9	5586.8	5526.6	5458.0	5268.8	5034.0	5148.3	4907.2	4861.5	4645.3
37.5°	5869.5	5852.9	5948.5	5886.1	5871.6	5738.6	5480.8	5503.7	5341.6	5331.2	5081.8
40°	6100.2	6104.4	6235.3	6264.4	6206.2	5969.3	5595.2	5776.0	5906.9	5919.4	5599.3
42.5°	6291.4	6347.6	6459.8	6694.6	6607.4	6212.5	5713.6	5911.1	6397.4	6474.3	6089.8
45°	6457.7	6572.0	6711.3	6921.2	6871.3	6557.5	6008.8	6189.6	6921.2	7122.8	6551.2
47.5°	6468.1	6617.7	6769.5	7081.2	7143.6	6742.5	6314.3	6630.2	7336.9	7555.1	6887.9
50°	6426.5	6505.5	6809.0	7147.7	7289.1	7043.8	6742.5	7000.2	7740.1	7877.3	7058.4
52.5°	5933.9	5994.2	6603.2	7210.1	7551.0	7384.7	7309.9	7515.6	8151.6	8253.5	7218.4
55°	4946.7	4936.3	5773.9	6896.3	7671.5	7889.8	7844.0	7916.8	8627.6	8719.0	7257.9
57.5°	3383.7	3572.8	4296.1	5742.7	6933.7	7771.3	7819.1	7698.5	8072.7	8108.0	6326.8
60°	1824.9	1903.8	2485.8	3832.6	5279.2	6333.0	6457.7	6239.5	6210.4	6110.6	4516.4
62.5°	725.4	764.9	1095.3	1897.6	2876.6	3849.3	4117.4	4028.0	3836.8	3574.9	2338.2
65°	345.0	370.0	544.6	887.5	1276.2	1604.6	1872.7	1955.8	1442.4	1299.0	771.1
67.5°	234.9	253.6	397.0	507.1	455.2	476.0	619.4	575.7	338.8	288.9	214.1
70°	178.7	191.2	318.0	345.0	203.7	143.4	160.0	149.6	139.3	141.3	139.3
72.5°	126.8	137.2	232.8	203.7	89.4	66.5	85.2	101.8	101.8	101.8	99.8
75°	76.9	87.3	135.1	79.0	35.3	35.3	54.0	68.6	72.7	74.8	70.7
77.5°	39.5	49.9	45.7	22.9	22.9	27.0	39.5	47.8	52.0	52.0	49.9
80°	8.3	8.3	8.3	12.5	22.9	29.1	39.5	43.6	49.9	49.9	45.7
82.5°	0.0	2.1	6.2	12.5	20.8	27.0	37.4	43.6	49.9	52.0	47.8
85°	0.0	2.1	4.2	8.3	14.5	16.6	14.5	12.5	12.5	12.5	12.5
87.5°	0.0	0.0	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8
2.5°	3017.9	3024.1	3013.7	3011.7	3003.3	3028.3	2968.0	2953.5	2990.9	2955.5	2963.9
5°	3057.4	3071.9	3053.2	3022.0	2976.3	2905.7	2845.4	2766.4	2729.0	2702.0	2697.8
7.5°	3086.5	3096.9	3078.2	2978.4	2841.2	2662.5	2529.5	2431.8	2354.9	2332.0	2294.6
10°	3205.0	3207.0	3113.5	2893.2	2625.1	2390.2	2186.5	2036.9	1960.0	1912.2	1891.4
12.5°	3283.9	3279.8	3090.6	2724.8	2367.3	2055.6	1822.8	1642.0	1571.3	1548.4	1533.9
15°	3383.7	3360.8	3036.6	2552.3	2034.8	1698.1	1488.2	1363.5	1357.2	1342.7	1357.2
17.5°	3462.7	3398.2	2957.6	2238.5	1716.8	1398.8	1261.6	1269.9	1286.6	1301.1	1303.2
20°	3591.5	3458.5	2776.8	1964.1	1421.7	1199.3	1197.2	1234.6	1276.2	1292.8	1309.4
22.5°	3689.2	3483.5	2583.5	1671.1	1180.6	1118.2	1153.5	1209.7	1240.8	1257.5	1282.4
25°	3724.6	3414.9	2325.8	1378.0	1064.2	1080.8	1134.8	1172.2	1211.7	1230.4	1220.0
27.5°	3759.9	3379.5	2018.2	1134.8	1001.8	1055.8	1101.6	1139.0	1151.5	1176.4	1193.0
30°	3845.1	3256.9	1741.7	981.0	970.6	1039.2	1072.5	1084.9	1118.2	1132.7	1132.7
32.5°	3913.7	3209.1	1448.7	908.3	966.5	1047.5	1051.7	1051.7	1055.8	1045.5	1041.3
35°	4055.0	3044.9	1186.8	864.6	964.4	1049.6	1060.0	1024.7	929.1	891.7	881.3
37.5°	4229.6	2938.9	993.5	854.2	978.9	1074.6	1091.2	958.2	833.5	773.2	762.8
40°	4441.6	2864.1	866.7	850.1	1012.2	1132.7	1082.9	906.2	744.1	656.8	652.6
42.5°	4689.0	2795.5	781.5	848.0	1053.8	1193.0	1074.6	862.6	652.6	594.4	602.7
45°	4886.4	2758.1	723.3	833.5	1068.3	1228.4	1080.8	785.6	615.2	577.8	582.0
47.5°	5040.2	2679.1	675.5	808.5	1066.2	1240.8	1024.7	754.5	596.5	606.9	617.3
50°	5044.4	2573.1	615.2	754.5	1035.1	1218.0	960.2	725.4	592.4	636.0	656.8
52.5°	4988.3	2423.5	550.8	677.6	962.3	1139.0	902.0	712.9	573.6	569.5	594.4
55°	4788.7	2142.9	442.7	548.7	812.7	939.5	850.1	690.0	517.5	469.7	473.9
57.5°	3870.1	1536.0	326.3	392.8	575.7	688.0	766.9	679.6	465.6	399.1	401.1
60°	2396.4	870.9	239.0	268.1	355.4	417.8	621.5	631.8	415.7	336.7	332.6
62.5°	1230.4	430.2	185.0	189.1	218.2	245.3	426.1	530.0	376.2	320.1	320.1
65°	411.5	212.0	162.1	145.5	145.5	151.7	257.7	367.9	318.0	268.1	268.1
67.5°	176.7	158.0	141.3	126.8	116.4	110.2	145.5	214.1	236.9	203.7	195.4
70°	137.2	133.0	122.6	106.0	91.5	83.1	85.2	110.2	135.1	130.9	126.8
72.5°	101.8	101.8	97.7	83.1	70.7	60.3	56.1	58.2	64.4	66.5	68.6
75°	70.7	72.7	72.7	64.4	52.0	43.6	37.4	31.2	24.9	20.8	18.7
77.5°	47.8	49.9	54.0	47.8	39.5	29.1	22.9	16.6	10.4	4.2	4.2
80°	41.6	47.8	52.0	47.8	41.6	31.2	22.9	12.5	6.2	0.0	0.0
82.5°	43.6	47.8	54.0	45.7	39.5	29.1	22.9	14.5	6.2	2.1	0.0
85°	10.4	10.4	12.5	14.5	18.7	20.8	16.6	10.4	6.2	2.1	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	0.0	0.0
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)