

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: P527868

Luminaire Tested: **GALN-SA2D-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10478 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 125
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

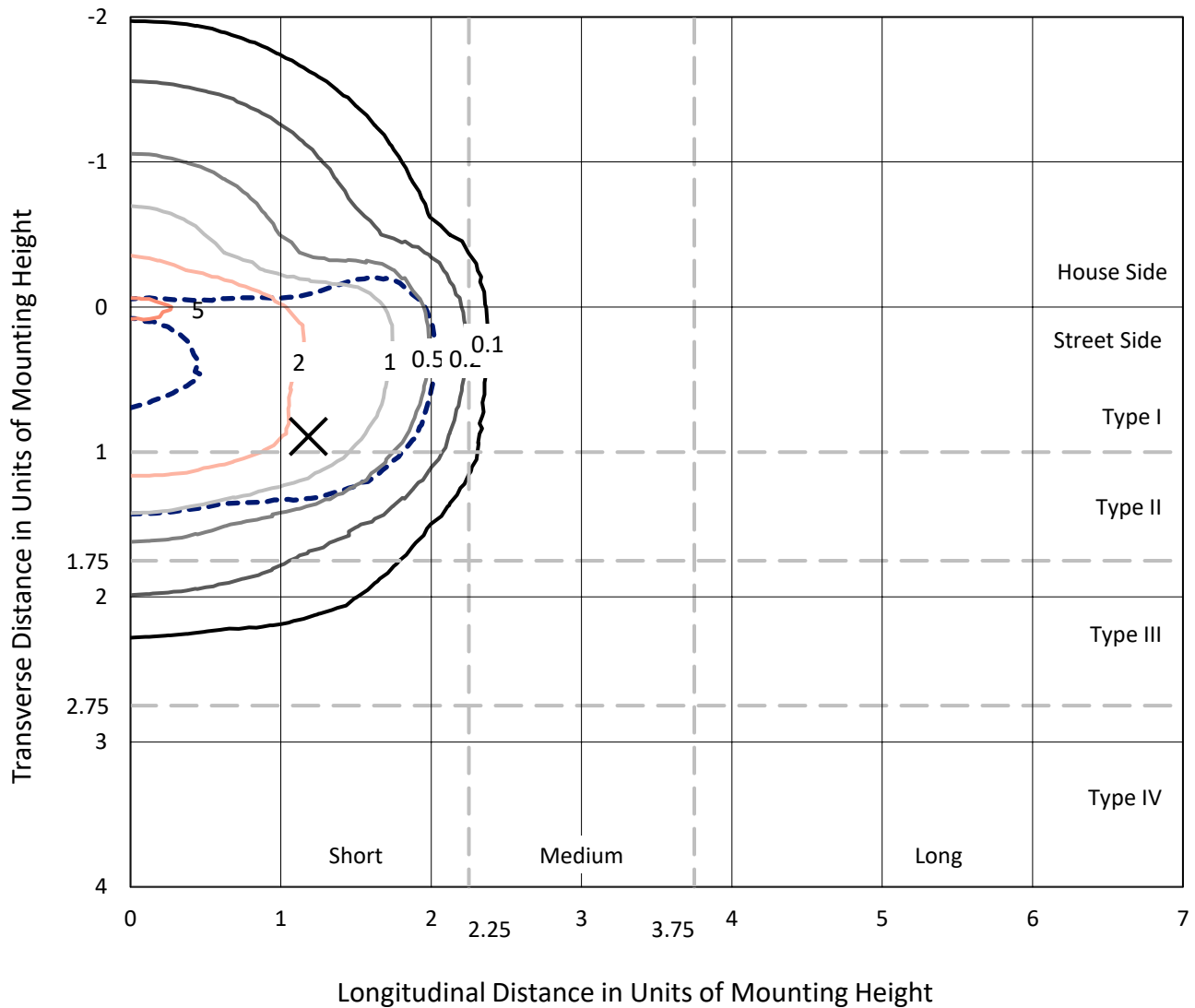


REPORT NUMBER: P527868

CATALOG NUMBER: GALN-SA2D-830-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

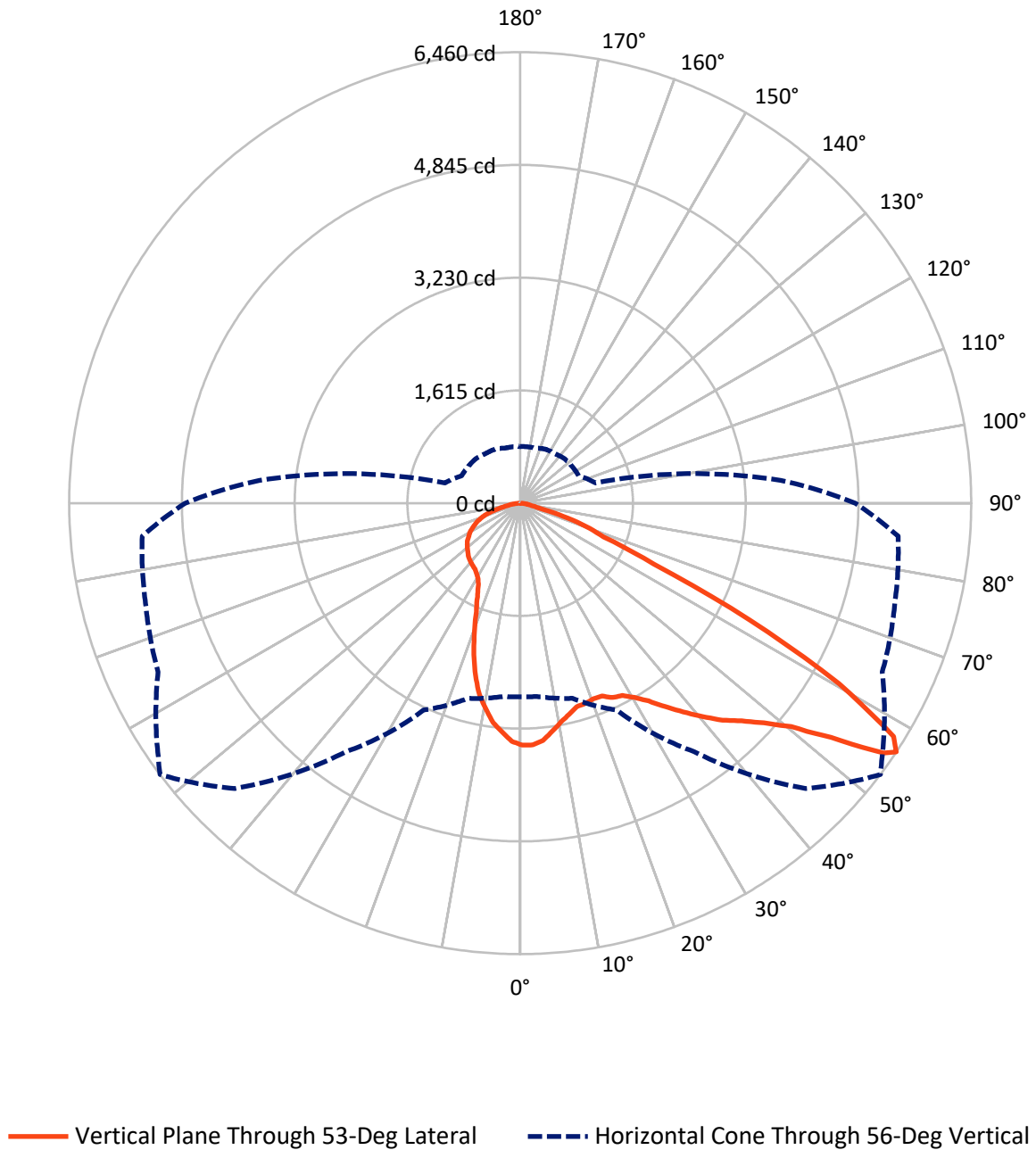


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

REPORT NUMBER: P527868

CATALOG NUMBER: GALN-SA2D-830-U-SL2-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P527868

CATALOG NUMBER: GALN-SA2D-830-U-SL2-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3057.7	0.0	3057.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	7420.3	0.0	7420.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	10478.0	0.0	10478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	2.9
10°-20°	766.5	7.3
20°-30°	1130.2	10.8
30°-40°	1614.9	15.4
40°-50°	2222.7	21.2
50°-60°	2626.6	25.1
60°-70°	1399.8	13.4
70°-80°	355.1	3.4
80°-90°	55.4	0.5
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°	10478.0	100.0
0°-180°	10478.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527868

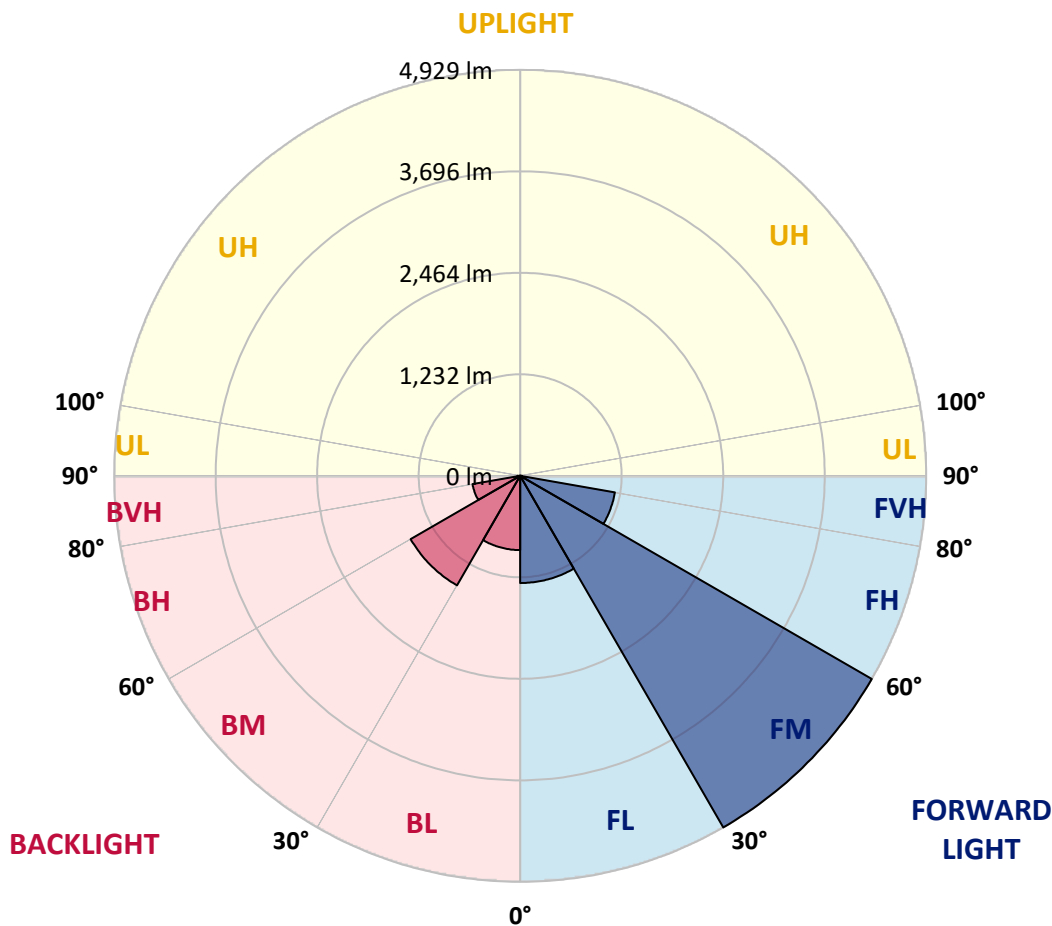
CATALOG NUMBER: GALN-SA2D-830-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1301.7	12.4			
FM	(30°-60°)	4928.6	47.0			
FH	(60°-80°)	1167.6	11.1			G1/1800
FVH	(80°-90°)	22.3	0.2			G1/100
BL	(0°-30°)	901.8	8.6	B2/1000		
BM	(30°-60°)	1535.5	14.7	B2/2500		
BH	(60°-80°)	587.3	5.6	B2/1000		G2/1000
BVH	(80°-90°)	33.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P527868

CATALOG NUMBER: GALN-SA2D-830-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3466.5	3466.5	3466.5	3466.5	3466.5	3466.5	3466.5	3466.5	3466.5	3466.5	3466.5
2.5°	3423.5	3394.0	3411.4	3404.7	3459.8	3475.9	3467.9	3474.6	3505.5	3490.7	3459.8
5°	3199.1	3240.7	3248.8	3268.9	3301.2	3364.4	3414.1	3427.6	3442.3	3510.9	3504.2
7.5°	2994.7	3023.0	3008.2	3067.3	3137.2	3239.4	3299.9	3310.6	3446.4	3484.0	3512.2
10°	2865.7	2837.5	2904.7	2920.8	3000.1	3117.1	3189.6	3234.0	3357.7	3506.9	3524.3
12.5°	2746.1	2736.7	2777.0	2822.7	2911.4	3032.4	3106.3	3123.8	3314.6	3471.9	3553.9
15°	2657.4	2646.6	2686.9	2720.5	2824.0	2931.6	3025.7	3075.4	3267.6	3451.7	3528.4
17.5°	2587.5	2586.1	2609.0	2669.5	2775.6	2865.7	3017.6	3020.3	3243.4	3482.7	3549.9
20°	2583.4	2582.1	2586.1	2653.3	2750.1	2860.3	2992.1	3016.2	3243.4	3461.2	3551.2
22.5°	2617.0	2595.5	2619.7	2662.7	2732.6	2869.7	3001.5	3055.2	3321.4	3567.3	3611.7
25°	2670.8	2676.2	2689.6	2704.4	2744.7	2891.2	3084.8	3129.2	3412.8	3658.7	3695.0
27.5°	2768.9	2766.2	2771.6	2779.7	2814.6	2911.4	3118.4	3232.7	3603.6	3821.4	3785.1
30°	2912.7	2903.3	2924.8	2953.1	2920.8	2975.9	3230.0	3316.0	3781.1	3985.4	3885.9
32.5°	3043.1	3078.1	3118.4	3130.5	3091.5	3102.3	3377.8	3465.2	3928.9	4187.0	4009.6
35°	3205.8	3234.0	3287.8	3325.4	3318.7	3286.4	3579.4	3695.0	4142.6	4334.8	4139.9
37.5°	3364.4	3398.0	3486.7	3598.3	3536.4	3521.6	3794.5	3889.9	4208.5	4414.2	4235.4
40°	3619.8	3618.4	3771.7	3829.5	3884.6	3859.0	4017.6	4049.9	4243.4	4396.7	4238.1
42.5°	3919.5	3900.7	4056.6	4146.7	4217.9	4220.6	4250.2	4239.4	4259.6	4308.0	4209.8
45°	4204.5	4244.8	4402.1	4563.4	4634.6	4642.7	4446.4	4426.3	4287.8	4282.4	4156.1
47.5°	4552.6	4562.0	4691.0	4903.4	5068.7	5012.3	4700.5	4656.1	4411.5	4453.1	4246.1
50°	4572.8	4642.7	4758.3	5008.3	5516.3	5501.6	5029.8	4946.4	4610.4	4695.1	4497.5
52.5°	4150.7	4134.6	4271.7	4680.3	5482.7	5988.1	5575.5	5376.6	5037.8	4973.3	4904.8
55°	3162.8	3200.4	3321.4	3734.0	4760.9	5994.9	6318.8	6156.2	5494.8	5384.6	5305.3
56°	2774.3	2779.7	2893.9	3270.3	4344.3	5781.1	6459.9	6328.2	5722.0	5554.0	5433.0
57.5°	2299.8	2268.9	2328.0	2533.7	3666.8	5329.5	6305.4	6434.4	5988.1	5736.8	5568.8
60°	1810.6	1803.8	1779.6	1817.3	2317.3	4014.9	5248.9	5539.2	5961.3	5564.7	5333.5
62.5°	1478.6	1444.9	1493.3	1547.1	1610.3	2490.7	3688.3	3859.0	4732.7	4442.4	4006.9
65°	1146.6	1130.4	1190.9	1365.6	1403.3	1582.1	2100.9	2232.6	2794.5	2744.7	2416.8
67.5°	789.0	791.7	844.1	1110.3	1301.1	1285.0	1286.3	1354.9	1458.4	1083.4	943.6
70°	500.0	498.7	526.9	715.1	1047.1	1057.8	1004.1	983.9	932.8	564.5	598.1
72.5°	321.2	311.8	326.6	395.2	541.7	626.4	645.2	657.3	540.3	443.6	481.2
75°	181.5	172.0	166.7	184.1	213.7	247.3	271.5	279.6	313.2	336.0	356.2
77.5°	55.1	49.7	60.5	80.6	106.2	142.5	173.4	178.8	211.0	237.9	258.1
80°	24.2	26.9	37.6	53.8	75.3	100.8	122.3	130.4	151.9	172.0	177.4
82.5°	14.8	16.1	25.5	36.3	52.4	71.2	87.4	90.1	111.6	127.7	131.7
85°	5.4	6.7	13.4	21.5	33.6	45.7	45.7	49.7	45.7	45.7	49.7
87.5°	0.0	0.0	1.3	2.7	2.7	4.0	5.4	5.4	6.7	8.1	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P527868

CATALOG NUMBER: GALN-SA2D-830-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3466.5	3466.5	3466.5	3466.5	3466.5	3466.5	3466.5	3466.5	3466.5	3466.5	3466.5
2.5°	3475.9	3469.2	3458.5	3419.5	3415.5	3403.4	3336.2	3325.4	3336.2	3303.9	3306.6
5°	3469.2	3489.4	3408.7	3369.8	3297.2	3244.8	3184.3	3153.4	3098.2	3063.3	3102.3
7.5°	3498.8	3490.7	3389.9	3305.2	3196.4	3063.3	2957.1	2896.6	2799.8	2773.0	2793.1
10°	3488.0	3445.0	3326.7	3215.2	3009.5	2892.6	2720.5	2553.9	2462.5	2415.4	2408.7
12.5°	3473.3	3461.2	3263.6	3071.4	2855.0	2609.0	2367.0	2209.8	2060.6	1996.0	2005.5
15°	3490.7	3388.6	3145.3	2902.0	2614.4	2291.8	2031.0	1828.0	1724.5	1682.9	1682.9
17.5°	3482.7	3353.6	3088.8	2712.5	2348.2	1966.5	1680.2	1557.9	1514.8	1514.8	1526.9
20°	3486.7	3376.5	2974.6	2522.9	2033.7	1656.0	1447.6	1403.3	1422.1	1428.8	1435.5
22.5°	3509.5	3301.2	2863.0	2314.6	1742.0	1416.7	1314.6	1315.9	1349.5	1385.8	1379.1
25°	3537.8	3271.6	2727.3	2107.6	1518.9	1299.8	1267.5	1263.5	1289.0	1307.8	1310.5
27.5°	3513.6	3220.6	2588.8	1849.5	1336.1	1221.8	1215.1	1217.8	1225.9	1263.5	1251.4
30°	3592.9	3235.3	2415.4	1633.1	1235.3	1196.3	1188.2	1184.2	1196.3	1207.0	1197.6
32.5°	3691.0	3182.9	2286.4	1424.8	1185.5	1177.5	1161.3	1156.0	1162.7	1151.9	1157.3
35°	3734.0	3173.5	2118.4	1275.6	1146.6	1139.8	1130.4	1129.1	1130.4	1121.0	1112.9
37.5°	3758.2	3217.9	1926.2	1207.0	1122.4	1129.1	1107.6	1104.9	1080.7	1086.1	1090.1
40°	3799.9	3149.3	1770.2	1141.2	1107.6	1094.1	1075.3	1071.3	1055.1	1045.7	1055.1
42.5°	3739.4	3129.2	1617.0	1112.9	1086.1	1071.3	1057.8	1035.0	1029.6	1021.5	1016.2
45°	3691.0	3013.6	1479.9	1078.0	1060.5	1052.5	1026.9	1002.7	982.6	990.6	978.5
47.5°	3727.3	2973.2	1344.1	1048.4	1025.6	1016.2	990.6	971.8	951.7	942.2	939.6
50°	3872.5	3048.5	1229.9	1026.9	996.0	990.6	957.0	935.5	916.7	910.0	912.7
52.5°	4219.3	3254.2	1151.9	982.6	967.8	943.6	924.8	897.9	885.8	864.3	877.7
55°	4658.8	3588.9	1131.8	940.9	932.8	911.3	885.8	865.6	842.8	825.3	821.3
56°	4799.9	3748.8	1115.6	924.8	911.3	899.2	865.6	853.5	817.2	813.2	810.5
57.5°	4914.2	3889.9	1118.3	893.9	880.4	869.7	849.5	819.9	795.7	780.9	787.7
60°	4656.1	3641.3	1067.2	846.8	844.1	824.0	795.7	782.3	752.7	735.2	731.2
62.5°	3461.2	2471.9	865.6	786.3	785.0	763.5	731.2	716.4	711.0	686.9	686.9
65°	1993.4	1549.8	748.7	736.6	725.8	704.3	672.1	660.0	646.5	638.5	631.7
67.5°	850.8	803.8	680.1	678.8	666.7	639.8	607.6	588.7	571.3	555.1	563.2
70°	617.0	626.4	614.3	607.6	592.8	559.2	530.9	508.1	481.2	470.4	478.5
72.5°	489.3	509.4	526.9	528.2	510.8	471.8	440.9	410.0	380.4	365.6	372.3
75°	371.0	384.4	401.9	405.9	380.4	353.5	323.9	291.7	268.8	251.4	254.0
77.5°	267.5	264.8	280.9	278.2	266.1	247.3	220.4	190.9	165.3	149.2	150.5
80°	182.8	186.8	196.2	194.9	180.1	168.0	147.9	123.7	104.8	91.4	88.7
82.5°	127.7	134.4	142.5	135.8	123.7	111.6	96.8	79.3	64.5	53.8	51.1
85°	45.7	52.4	60.5	64.5	68.6	65.9	55.1	44.4	32.3	26.9	25.5
87.5°	9.4	10.8	12.1	12.1	12.1	10.8	9.4	9.4	8.1	4.0	4.0
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)