

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: P650817

Luminaire Tested: **GALN-SA3C-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15048 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

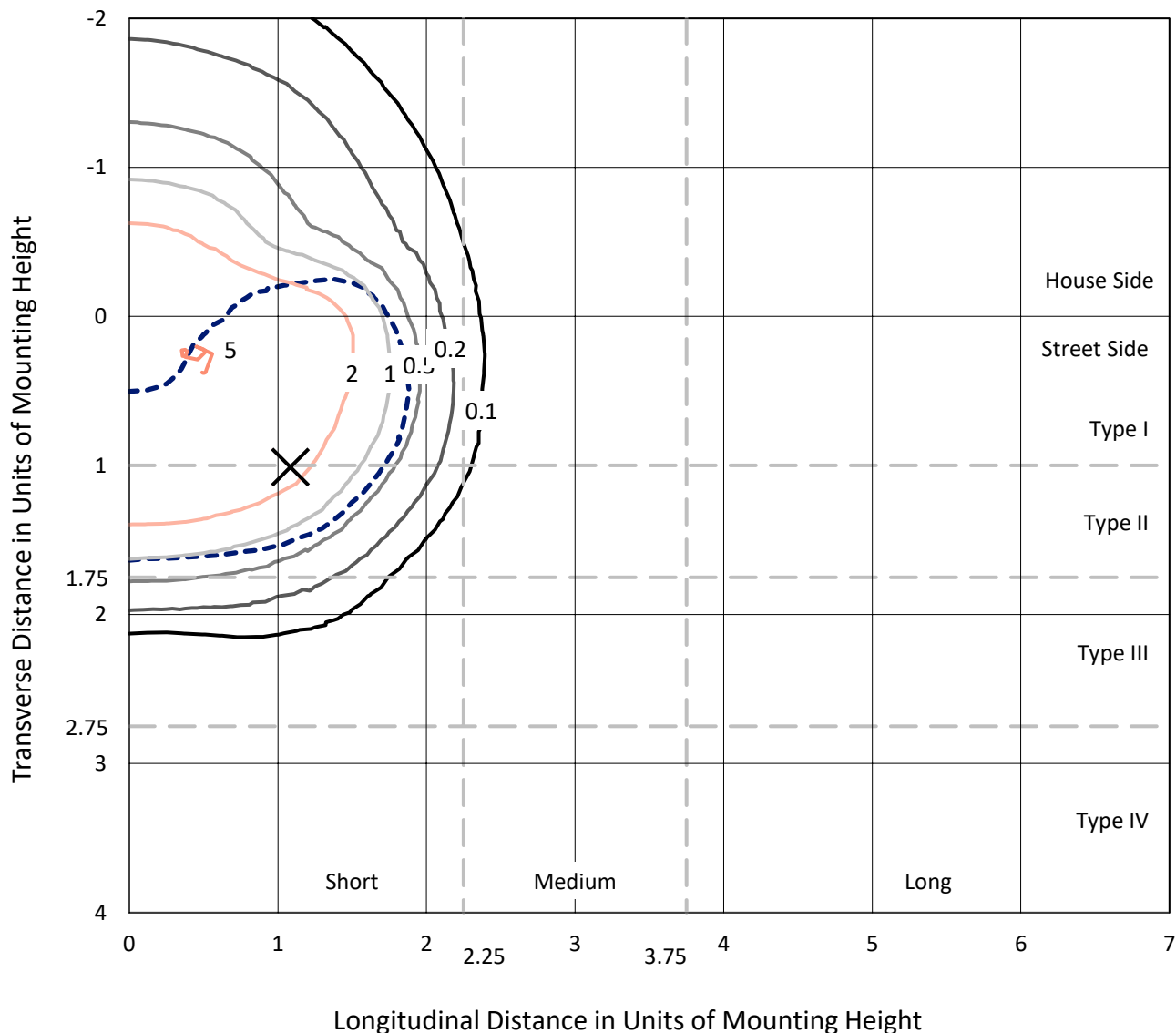
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

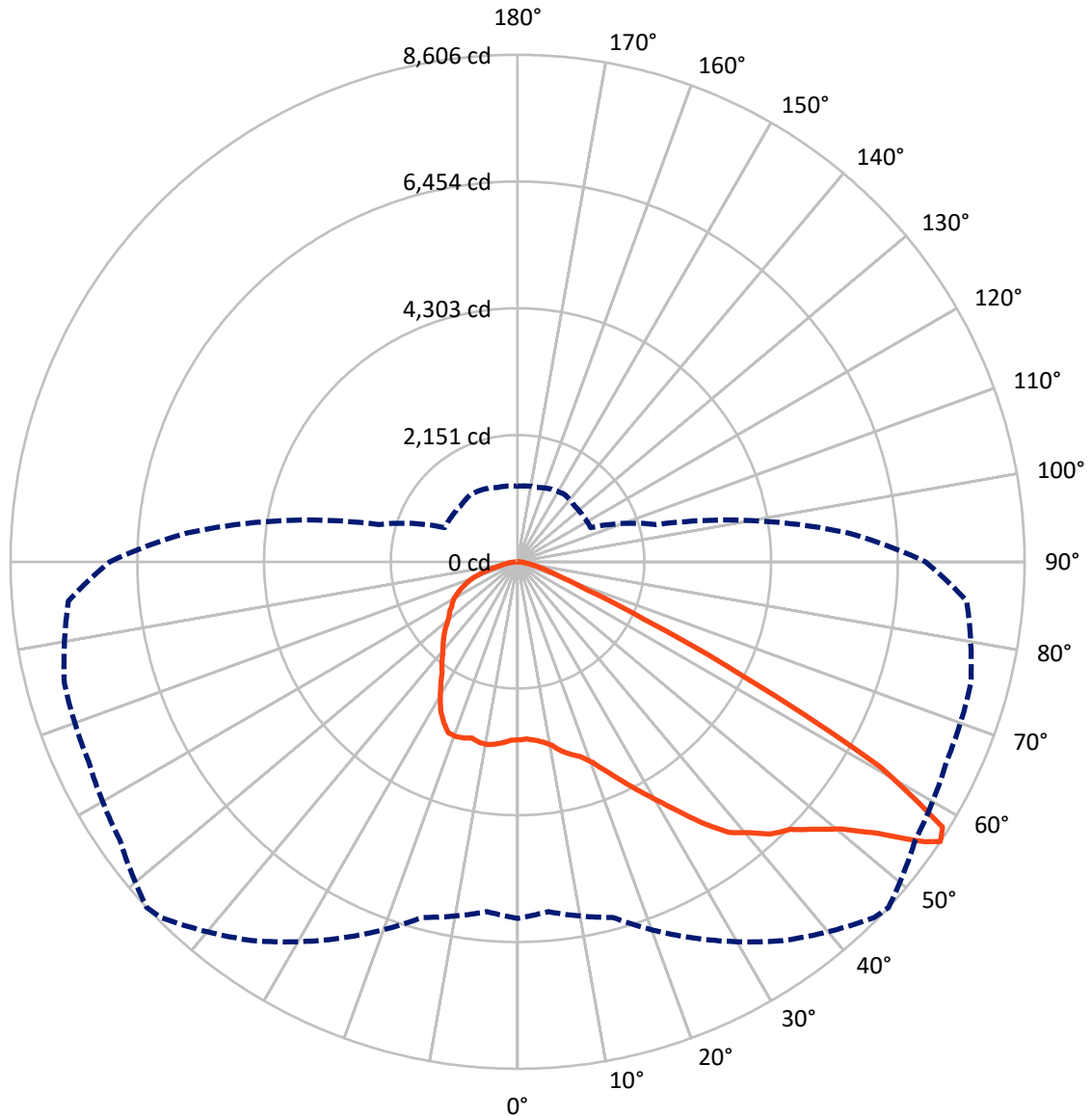
✕ Max cd
 - - - 1/2 Max cd



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 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4768.5	0.0	4768.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	10279.5	0.0	10279.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	15048.0	0.0	15048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.5	2.0
10°-20°	929.1	6.2
20°-30°	1642.4	10.9
30°-40°	2466.8	16.4
40°-50°	3385.4	22.5
50°-60°	4033.3	26.8
60°-70°	1726.0	11.5
70°-80°	488.5	3.2
80°-90°	82.2	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°	15048.0	100.0
0°-180°	15048.0	100.0

Coefficient of Utilization



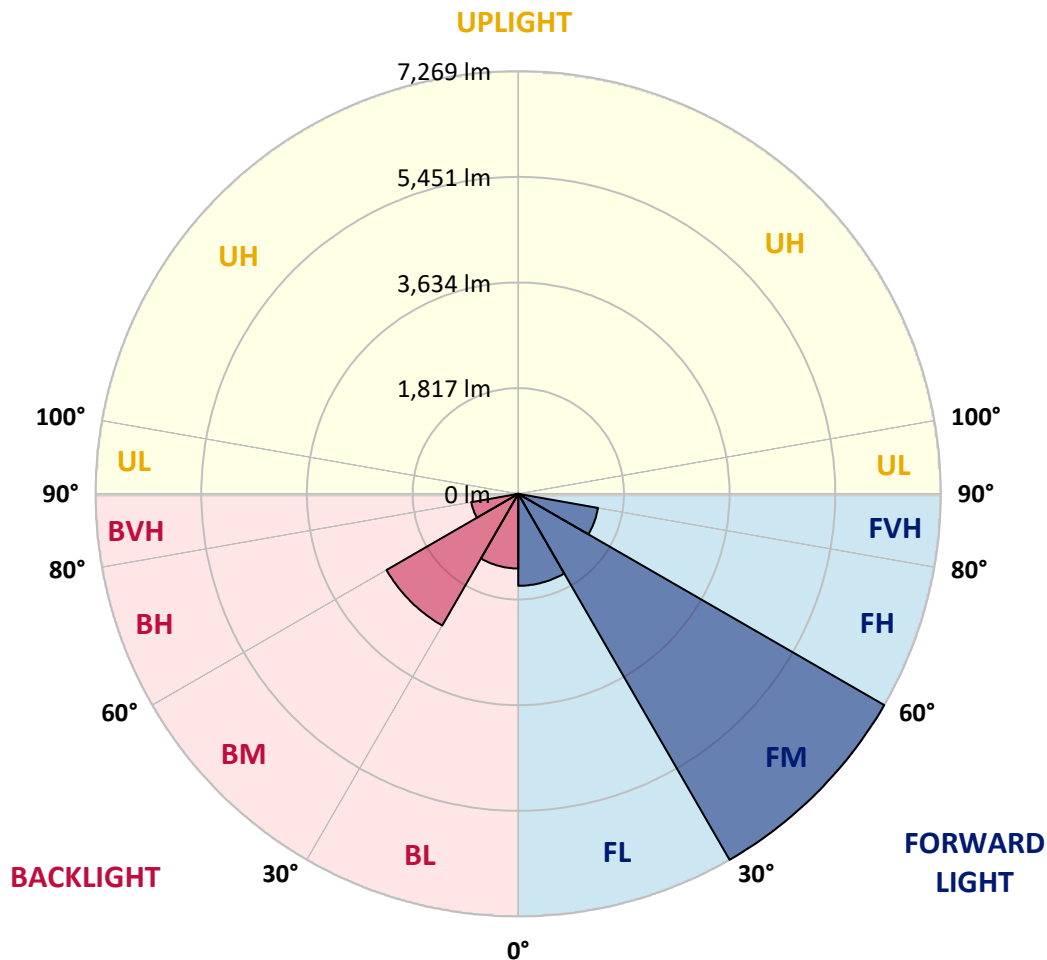
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1582.1	10.5			
FM (30°-60°)	7268.5	48.3			
FH (60°-80°)	1394.0	9.3			G1/1800
FVH (80°-90°)	34.9	0.2			G1/100
BL (0°-30°)	1283.9	8.5	B3/2500		
BM (30°-60°)	2616.9	17.4	B3/5000		
BH (60°-80°)	820.5	5.5	B2/1000		G2/1000
BVH (80°-90°)	47.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7
2.5°	3011.2	3005.4	3001.6	3032.3	3020.8	3022.7	3011.2	3022.7	3030.4	3013.1	3038.0
5°	3005.4	3022.7	3007.3	3016.9	3041.9	3034.2	3041.9	3064.9	3059.1	3053.4	3045.7
7.5°	3059.1	3061.1	3072.6	3076.5	3084.1	3076.5	3087.9	3109.1	3103.3	3070.7	3074.5
10°	3135.9	3139.8	3141.6	3162.7	3176.2	3178.1	3164.7	3145.5	3143.6	3187.7	3157.0
12.5°	3224.2	3214.6	3237.6	3245.3	3260.6	3278.0	3295.2	3254.9	3279.8	3281.8	3245.3
15°	3352.8	3362.4	3335.5	3335.5	3341.3	3343.2	3391.2	3372.0	3368.1	3347.0	3362.4
17.5°	3544.7	3479.5	3477.5	3450.6	3446.8	3462.1	3479.5	3494.8	3546.6	3504.4	3421.9
20°	3684.8	3700.1	3644.5	3611.8	3617.6	3652.2	3634.9	3704.0	3740.4	3671.4	3590.7
22.5°	3932.3	3880.5	3894.0	3821.1	3826.8	3863.3	3861.4	3932.3	3953.5	3844.1	3727.1
25°	4099.4	4085.9	4097.4	4039.8	4047.6	4076.3	4122.3	4239.5	4204.9	4084.0	3813.3
27.5°	4343.1	4316.2	4306.6	4285.5	4277.8	4354.6	4408.4	4533.1	4508.1	4331.6	3966.9
30°	4592.5	4575.3	4584.9	4498.5	4529.2	4692.4	4707.7	4878.6	4867.0	4556.1	4137.7
32.5°	4765.3	4774.9	4792.2	4744.2	4880.4	5010.9	5062.7	5256.6	5266.2	4941.9	4467.8
35°	5043.6	5010.9	5020.5	5076.2	5139.5	5377.5	5462.0	5590.5	5671.1	5346.8	4784.4
37.5°	5218.2	5252.8	5212.4	5300.7	5465.8	5751.8	5828.6	5960.9	6045.4	5746.0	5216.3
40°	5490.7	5435.0	5463.9	5527.2	5696.1	6068.4	6047.3	6183.5	6210.4	6085.6	5619.3
42.5°	5784.4	5757.5	5717.2	5861.1	6003.1	6273.8	6316.0	6252.7	6388.9	6417.7	6195.1
45°	6135.6	6168.2	6173.9	6177.8	6302.5	6538.6	6481.0	6425.4	6582.8	6791.9	6552.1
47.5°	6461.8	6358.2	6433.1	6536.7	6713.3	6715.1	6782.3	6650.0	6816.9	7003.0	6874.4
50°	6571.2	6521.4	6621.1	6816.9	7089.4	7118.2	7125.9	6937.8	7024.1	7172.0	6985.8
52.5°	6529.0	6511.7	6767.0	7070.2	7469.4	7615.3	7653.6	7421.4	7469.4	7402.2	7231.4
55°	6327.5	6379.3	6636.5	7254.5	7866.6	8317.7	8390.6	8097.0	7791.8	7843.7	7655.5
56°	6051.2	5960.9	6248.8	7045.2	7849.4	8546.1	8605.5	8239.0	8031.7	7964.5	7651.8
57.5°	5133.8	5016.7	5394.8	6339.0	7413.8	8459.7	8503.9	8298.5	7991.4	7855.2	7093.2
60°	3005.4	3063.0	3542.8	4371.9	5719.1	6935.9	7083.7	7233.4	7028.0	6417.7	5279.6
62.5°	1450.9	1414.4	1757.9	2506.4	3485.2	4427.5	4383.4	4803.7	5034.0	4559.9	3333.6
65°	760.0	756.1	959.6	1368.4	1915.3	2326.0	2366.3	2592.8	2909.4	2349.1	1692.7
67.5°	558.5	573.8	675.6	961.5	1232.1	1257.0	1251.3	1364.5	1395.2	1180.3	1040.1
70°	437.6	445.2	520.1	731.2	917.4	821.4	804.2	817.5	907.8	946.1	900.1
72.5°	316.6	324.4	387.7	493.2	573.8	560.4	571.9	646.7	758.1	798.4	750.4
75°	211.1	216.9	251.4	301.3	339.7	366.6	387.7	474.1	577.7	600.7	577.7
77.5°	145.8	151.6	174.7	213.0	216.9	234.1	241.8	282.2	345.5	374.2	358.9
80°	82.5	82.5	94.0	109.4	134.3	157.4	161.2	193.9	222.6	241.8	245.7
82.5°	38.3	40.3	49.9	67.2	88.3	109.4	113.2	134.3	155.4	174.7	180.4
85°	19.2	21.1	28.8	40.3	53.7	65.3	63.3	65.3	69.1	65.3	67.2
87.5°	5.7	5.7	7.7	9.6	7.7	9.6	9.6	11.5	13.5	15.4	17.2
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°	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7	3022.7
2.5°	3040.0	3045.7	3007.3	3043.8	3030.4	3028.4	3055.4	3051.5	3061.1	3057.2	3034.2
5°	3041.9	3028.4	3068.7	3032.3	3049.6	3086.0	3061.1	3118.7	3089.8	3109.1	3066.8
7.5°	3101.4	3105.2	3097.6	3112.9	3105.2	3122.5	3109.1	3122.5	3099.4	3101.4	3139.8
10°	3153.2	3141.6	3155.1	3135.9	3149.4	3143.6	3112.9	3103.3	3110.9	3101.4	3126.3
12.5°	3249.1	3228.0	3218.4	3195.4	3180.1	3122.5	3074.5	3047.6	3084.1	3089.8	3078.3
15°	3347.0	3348.9	3304.8	3253.0	3157.0	3070.7	3082.2	3091.8	3091.8	3107.2	3078.3
17.5°	3408.4	3408.4	3368.1	3264.5	3166.6	3116.7	3105.2	3074.5	3047.6	3043.8	3041.9
20°	3515.9	3483.3	3391.2	3262.6	3162.7	3139.8	3053.4	2980.5	2924.8	2905.7	2903.7
22.5°	3638.8	3556.3	3427.7	3266.4	3157.0	3124.4	2963.2	2853.8	2754.0	2711.8	2717.5
25°	3752.0	3619.6	3448.8	3249.1	3135.9	2978.6	2798.2	2646.5	2542.9	2508.4	2491.0
27.5°	3830.7	3686.7	3448.8	3264.5	3057.2	2815.4	2631.2	2437.3	2347.1	2324.1	2328.0
30°	3936.2	3771.1	3508.2	3231.9	2899.9	2604.3	2383.6	2256.9	2203.2	2184.0	2197.4
32.5°	4183.8	3991.9	3590.7	3153.2	2713.7	2393.2	2214.7	2143.7	2065.0	2026.6	2013.2
35°	4452.5	4201.0	3671.4	3020.8	2504.5	2201.3	2090.0	2024.7	1930.7	1888.5	1896.1
37.5°	4832.5	4469.7	3677.1	2802.0	2278.0	2093.8	1992.1	1890.4	1813.6	1748.4	1729.2
40°	5344.9	4836.3	3663.7	2571.7	2095.8	1967.2	1892.3	1765.6	1679.3	1633.2	1642.8
42.5°	5795.9	5266.2	3608.1	2310.6	1930.7	1880.8	1796.4	1671.6	1587.1	1539.2	1535.3
45°	6175.9	5582.9	3502.5	2088.0	1792.5	1784.9	1687.0	1591.0	1523.8	1479.7	1498.8
47.5°	6527.1	5838.1	3343.2	1865.4	1665.9	1681.2	1587.1	1527.7	1485.5	1445.2	1443.2
50°	6653.7	5834.3	3203.1	1681.2	1564.1	1556.4	1552.6	1489.2	1445.2	1410.6	1425.9
52.5°	6864.8	5899.5	3051.5	1554.5	1472.0	1473.9	1487.4	1441.3	1391.4	1370.3	1389.5
55°	7168.1	5909.1	2717.5	1406.7	1395.2	1408.7	1408.7	1378.0	1335.8	1318.4	1308.8
56°	6920.5	5623.2	2437.3	1368.4	1356.9	1356.9	1393.3	1358.8	1306.9	1293.5	1282.0
57.5°	6383.2	4926.5	2040.1	1322.3	1305.1	1331.9	1351.1	1314.7	1266.6	1247.5	1259.0
60°	4402.6	3333.6	1533.4	1222.5	1222.5	1266.6	1282.0	1228.3	1207.2	1205.2	1189.8
62.5°	2569.8	1942.2	1199.5	1132.3	1136.1	1172.6	1184.1	1153.4	1126.5	1159.2	1174.5
65°	1362.6	1159.2	1028.7	1036.4	1038.3	1067.1	1116.9	1115.0	1113.1	1122.7	1124.7
67.5°	986.5	963.4	934.6	927.0	930.8	951.9	1001.8	1040.1	1038.3	1015.3	997.9
70°	879.0	846.4	829.1	831.0	815.7	840.6	880.9	905.8	861.7	834.9	823.3
72.5°	731.2	721.6	710.1	712.0	681.3	675.6	629.5	629.5	618.0	610.3	623.8
75°	558.5	554.6	560.4	550.8	518.1	483.7	456.7	431.9	393.4	378.1	370.4
77.5°	353.1	364.7	378.1	357.0	343.5	318.6	291.7	266.8	236.1	218.7	218.7
80°	239.9	249.5	259.1	255.2	239.9	216.9	195.8	168.9	147.8	134.3	132.5
82.5°	182.3	190.0	203.4	188.0	172.7	153.6	136.2	117.1	97.9	82.5	82.5
85°	65.3	74.8	82.5	90.2	96.0	97.9	84.4	69.1	55.7	44.2	42.2
87.5°	17.2	19.2	21.1	19.2	19.2	19.2	21.1	19.2	17.2	13.5	13.5
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)