

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: P528474

Luminaire Tested: **GALN-SA3C-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17604 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

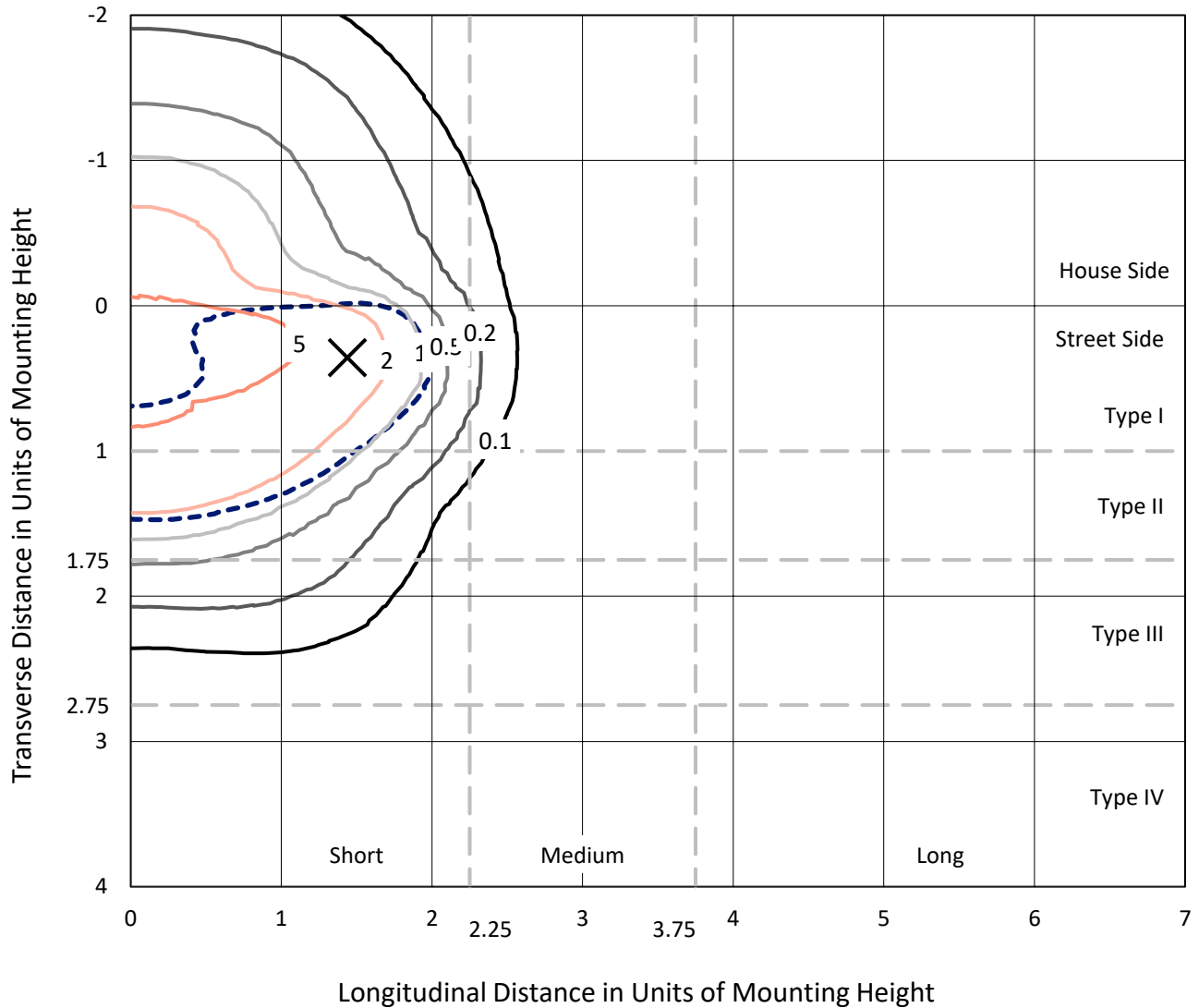
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

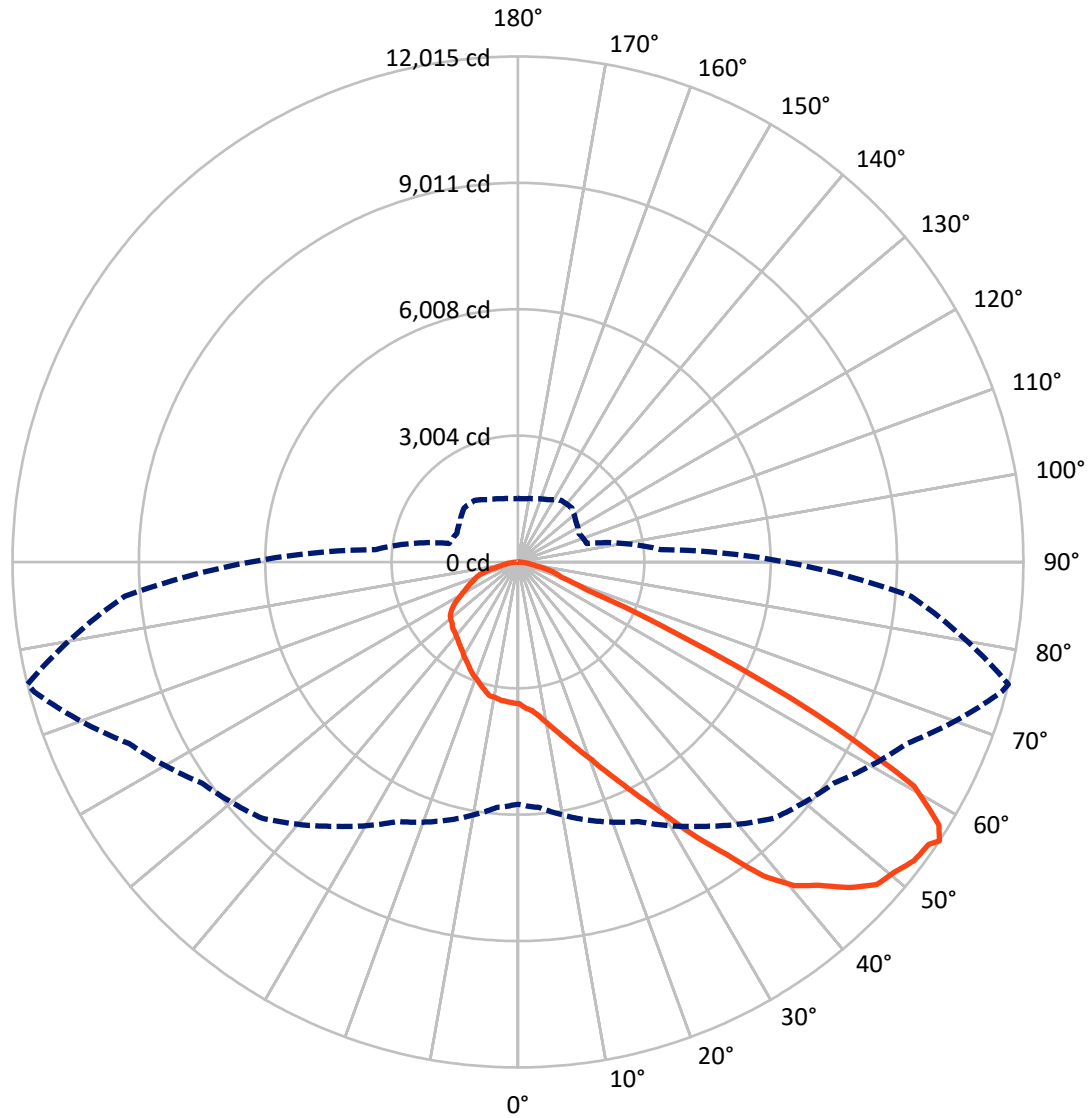
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4733.2	0.0	4733.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	12870.8	0.0	12870.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	17604.0	0.0	17604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	1.9
10°-20°	1049.3	6.0
20°-30°	1835.1	10.4
30°-40°	2873.2	16.3
40°-50°	4179.7	23.7
50°-60°	4593.8	26.1
60°-70°	2050.5	11.6
70°-80°	592.3	3.4
80°-90°	96.1	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°	17604.0	100.0
0°-180°	17604.0	100.0

Coefficient of Utilization

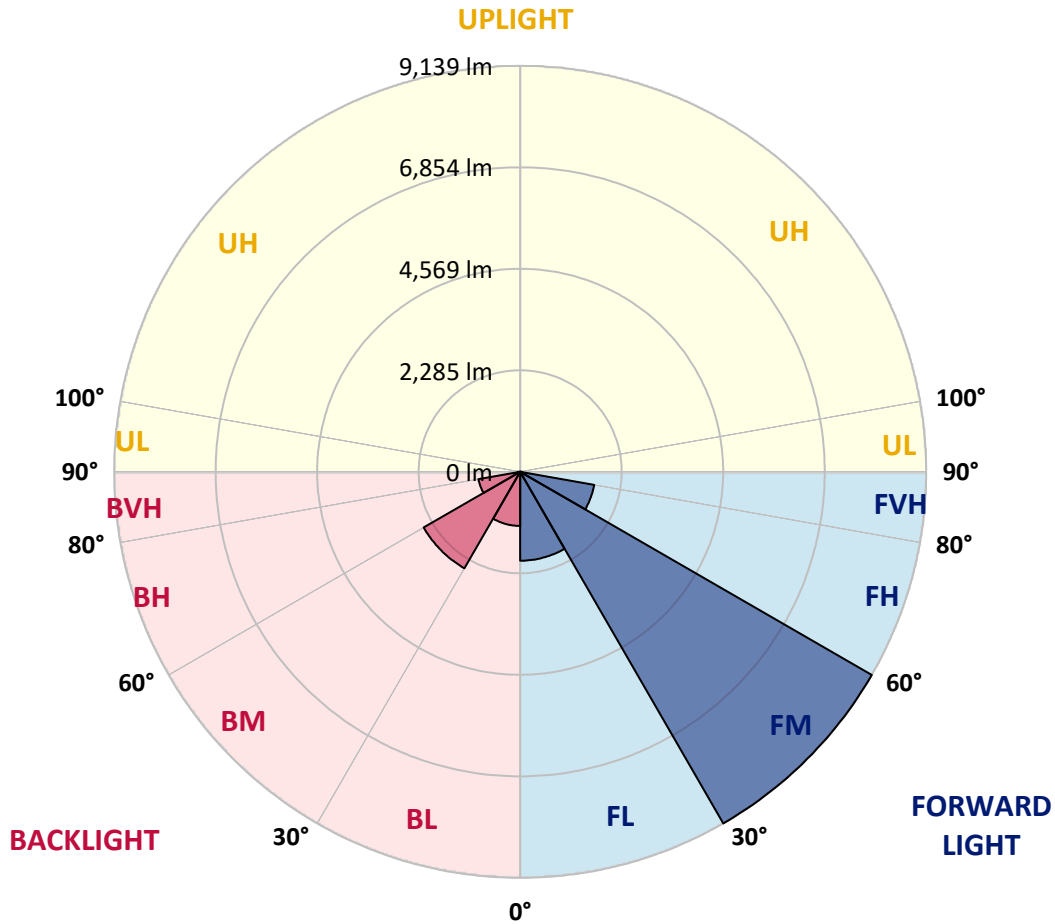


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2000.5	11.4			
FM (30°-60°)	9138.6	51.9			
FH (60°-80°)	1690.4	9.6			G1/1800
FVH (80°-90°)	41.4	0.2			G1/100
BL (0°-30°)	1217.9	6.9	B3/2500		
BM (30°-60°)	2508.2	14.2	B3/5000		
BH (60°-80°)	952.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	54.7	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°	55°	65°	75°	76°	85°
0°	3368.3	3368.3	3368.3	3368.3	3368.3	3368.3	3368.3	3368.3	3368.3	3368.3	3368.3
2.5°	3710.6	3651.3	3646.7	3630.7	3639.9	3598.8	3555.4	3498.4	3439.0	3475.6	3388.8
5°	3970.8	3890.9	3922.8	3868.1	3874.9	3820.1	3731.1	3665.0	3591.9	3548.6	3487.0
7.5°	4062.0	4068.9	4091.7	4082.6	4036.9	4036.9	3977.6	3861.2	3733.4	3708.3	3605.6
10°	4185.3	4187.6	4162.5	4169.3	4233.2	4203.5	4151.0	4100.8	3936.5	3906.9	3724.3
12.5°	4228.6	4187.6	4228.6	4265.1	4340.5	4381.5	4370.1	4333.6	4157.9	4137.3	3870.3
15°	4235.5	4210.4	4244.6	4326.8	4392.9	4566.4	4653.1	4628.0	4395.2	4397.5	4034.7
17.5°	4203.5	4237.8	4251.5	4322.2	4475.1	4637.1	4888.1	4922.4	4730.7	4701.0	4242.3
20°	4246.9	4221.8	4240.0	4303.9	4507.0	4760.3	5089.0	5314.9	5045.6	5025.1	4456.8
22.5°	4413.5	4379.2	4374.7	4415.8	4561.8	4824.2	5301.2	5707.4	5429.0	5440.4	4723.8
25°	4543.6	4561.8	4545.8	4543.6	4634.8	4920.1	5581.9	6175.2	5949.3	5883.1	5038.8
27.5°	4767.2	4810.6	4778.6	4822.0	4801.4	5063.9	5782.7	6693.2	6510.7	6421.7	5324.0
30°	5077.6	5100.4	5070.7	5070.7	5009.1	5264.7	5965.3	7234.1	7158.8	7037.8	5659.5
32.5°	5486.0	5520.3	5460.9	5426.7	5417.6	5563.6	6293.9	7768.1	7895.9	7793.2	6104.5
35°	6026.9	6006.3	5935.6	5903.7	5780.4	6022.3	6782.2	8382.0	8717.4	8534.9	6643.0
37.5°	6503.8	6471.9	6467.3	6289.3	6319.0	6517.5	7197.6	8847.5	9513.8	9461.4	7211.3
40°	6948.8	6978.5	7026.4	6926.0	6880.4	7099.4	7681.4	9203.5	10132.3	10111.7	7649.4
42.5°	7425.8	7398.4	7482.8	7398.4	7329.9	7640.3	8206.2	9450.0	10675.4	10506.5	8108.1
45°	8117.2	8030.5	8060.2	8067.0	8016.8	8130.9	8423.0	9628.0	11056.5	11038.3	8443.6
47.5°	8694.6	8696.9	8646.7	8607.9	8455.0	8569.1	8664.9	9739.8	11494.7	11465.0	8573.6
50°	8909.1	8879.4	9025.5	9109.9	9119.1	8886.3	8854.3	9801.4	11725.2	11595.1	8703.7
52.5°	8137.8	8165.2	8395.6	8897.7	9187.5	9212.6	9075.7	9929.2	11818.7	11791.3	8808.7
55°	6549.5	6681.8	7060.6	7640.3	8327.2	9082.5	9315.3	10061.5	11868.9	11846.1	9274.2
56°	5757.6	5860.3	6353.2	6807.3	7670.0	8610.2	9164.7	10203.0	11907.7	12015.0	9383.8
57.5°	4634.8	4753.5	5107.2	5623.0	6640.8	7711.0	8749.4	10029.6	11757.1	11798.2	9463.6
60°	2898.2	2909.6	3334.1	3674.1	4390.7	5435.8	6677.3	8726.5	10880.8	10821.5	8500.6
62.5°	1900.9	1903.2	2288.9	2567.3	2893.6	3133.2	3929.7	5787.3	8028.2	7923.3	6052.0
65°	1335.0	1364.7	1663.6	2035.6	2167.9	2042.4	2017.3	3051.1	4484.2	4333.6	3251.9
67.5°	976.7	979.0	1243.7	1643.1	1834.8	1554.1	1262.0	1490.2	1775.4	1770.9	1506.2
70°	645.8	673.2	876.3	1227.7	1446.8	1248.3	1031.5	1065.7	1129.6	1129.6	1120.5
72.5°	376.5	401.6	536.3	778.2	812.4	780.5	817.0	912.8	953.9	951.6	940.2
75°	214.5	225.9	255.6	324.1	403.9	476.9	600.2	691.5	732.5	757.6	728.0
77.5°	125.5	132.4	150.6	184.8	209.9	257.9	326.3	390.2	445.0	438.2	442.7
80°	66.2	66.2	84.4	109.5	146.1	182.6	216.8	253.3	283.0	289.8	296.7
82.5°	38.8	41.1	54.8	79.9	105.0	130.1	166.6	191.7	219.1	221.4	225.9
85°	20.5	22.8	34.2	52.5	70.7	79.9	82.2	77.6	84.4	79.9	91.3
87.5°	6.8	6.8	11.4	9.1	9.1	11.4	13.7	13.7	18.3	18.3	18.3
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°	3368.3	3368.3	3368.3	3368.3	3368.3	3368.3	3368.3	3368.3	3368.3	3368.3	3368.3
2.5°	3386.6	3386.6	3347.8	3274.7	3263.3	3233.7	3206.3	3204.0	3183.5	3165.2	3156.1
5°	3450.5	3379.7	3322.7	3256.5	3178.9	3142.4	3101.3	3055.7	3037.4	3055.7	3053.4
7.5°	3523.5	3464.1	3293.0	3169.8	3080.8	3044.2	2998.6	2950.7	2955.2	2955.2	2923.3
10°	3594.2	3514.4	3240.5	3083.0	2953.0	2925.6	2900.5	2918.7	2941.6	2946.1	2925.6
12.5°	3712.9	3532.6	3215.4	2996.3	2914.2	2854.8	2870.8	2921.0	2968.9	2955.2	2971.2
15°	3801.9	3548.6	3101.3	2907.3	2804.6	2832.0	2889.1	2923.3	3003.2	2994.0	3010.0
17.5°	3888.6	3557.7	2989.5	2788.7	2745.3	2820.6	2864.0	2962.1	2987.2	3042.0	3062.5
20°	4066.6	3576.0	2875.4	2715.6	2701.9	2788.7	2864.0	2909.6	2964.4	3012.3	3012.3
22.5°	4157.9	3566.8	2800.1	2619.8	2663.1	2717.9	2786.4	2864.0	2864.0	2909.6	2911.9
25°	4272.0	3530.3	2681.4	2574.1	2606.1	2658.6	2736.2	2708.8	2738.5	2738.5	2775.0
27.5°	4402.1	3452.7	2578.7	2492.0	2555.9	2612.9	2624.4	2606.1	2571.9	2567.3	2553.6
30°	4507.0	3356.9	2503.4	2464.6	2517.1	2549.0	2512.5	2473.7	2414.4	2409.8	2377.9
32.5°	4650.8	3238.2	2409.8	2396.1	2455.5	2457.8	2446.4	2387.0	2300.3	2263.8	2227.3
35°	4892.7	3169.8	2339.1	2359.6	2377.9	2371.0	2350.5	2286.6	2199.9	2183.9	2170.2
37.5°	5070.7	3119.6	2266.1	2291.2	2307.1	2316.3	2254.7	2183.9	2186.2	2154.3	2145.1
40°	5271.5	3087.6	2206.7	2218.1	2220.4	2250.1	2174.8	2140.6	2156.5	2136.0	2149.7
42.5°	5529.4	3096.7	2145.1	2136.0	2179.4	2167.9	2131.4	2085.8	2094.9	2033.3	2042.4
45°	5666.3	3158.4	2108.6	2067.5	2115.5	2113.2	2065.3	2021.9	1967.1	1848.5	1853.0
47.5°	5757.6	3174.3	2021.9	1994.5	2044.7	2074.4	2019.6	1919.2	1841.6	1757.2	1736.6
50°	5851.2	3204.0	1980.8	1923.8	1944.3	2015.0	1946.6	1850.7	1775.4	1700.1	1711.5
52.5°	5933.3	3261.0	1900.9	1816.5	1853.0	1930.6	1894.1	1777.7	1695.6	1633.9	1615.7
55°	6298.4	3388.8	1766.3	1656.8	1743.5	1841.6	1821.1	1679.6	1590.6	1558.6	1554.1
56°	6355.5	3393.4	1695.6	1602.0	1681.9	1811.9	1786.8	1636.2	1556.4	1506.2	1508.4
57.5°	6364.6	3338.6	1595.1	1551.8	1620.3	1768.6	1736.6	1602.0	1492.5	1446.8	1433.1
60°	5600.1	2606.1	1469.6	1442.3	1522.1	1636.2	1624.8	1508.4	1385.2	1332.7	1357.8
62.5°	3817.9	1910.1	1371.5	1366.9	1408.0	1519.8	1490.2	1385.2	1282.5	1248.3	1232.3
65°	2222.7	1449.1	1275.7	1257.4	1291.6	1351.0	1371.5	1262.0	1154.7	1131.9	1125.0
67.5°	1312.2	1198.1	1152.4	1122.8	1111.4	1147.9	1163.8	1099.9	992.7	960.7	988.1
70°	1097.7	1065.7	1068.0	1017.8	990.4	965.3	951.6	894.6	805.6	764.5	753.1
72.5°	947.0	933.4	924.2	878.6	853.5	796.4	737.1	680.0	613.9	579.6	581.9
75°	723.4	718.8	723.4	700.6	657.2	611.6	556.8	483.8	433.6	390.2	399.4
77.5°	431.3	445.0	451.8	442.7	424.5	383.4	349.2	301.2	253.3	219.1	214.5
80°	296.7	308.1	319.5	308.1	289.8	260.2	223.6	187.1	152.9	134.6	130.1
82.5°	225.9	237.3	244.2	232.8	209.9	178.0	152.9	127.8	100.4	82.2	77.6
85°	82.2	93.6	91.3	109.5	118.7	114.1	98.1	75.3	57.1	41.1	38.8
87.5°	22.8	20.5	22.8	22.8	22.8	20.5	18.3	18.3	18.3	11.4	9.1
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)