

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: P527544

Luminaire Tested: **GALN-SA2C-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12342 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

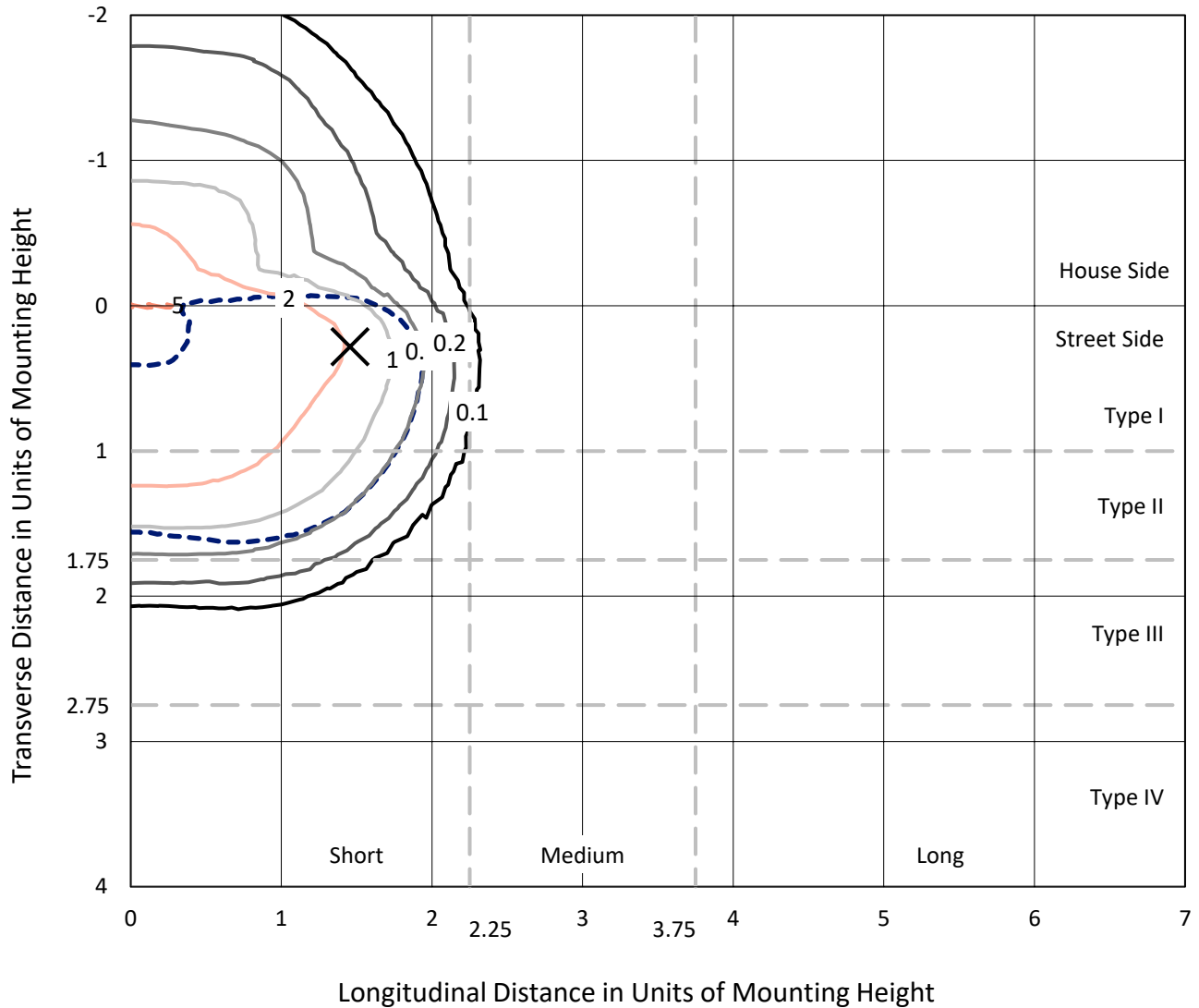
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

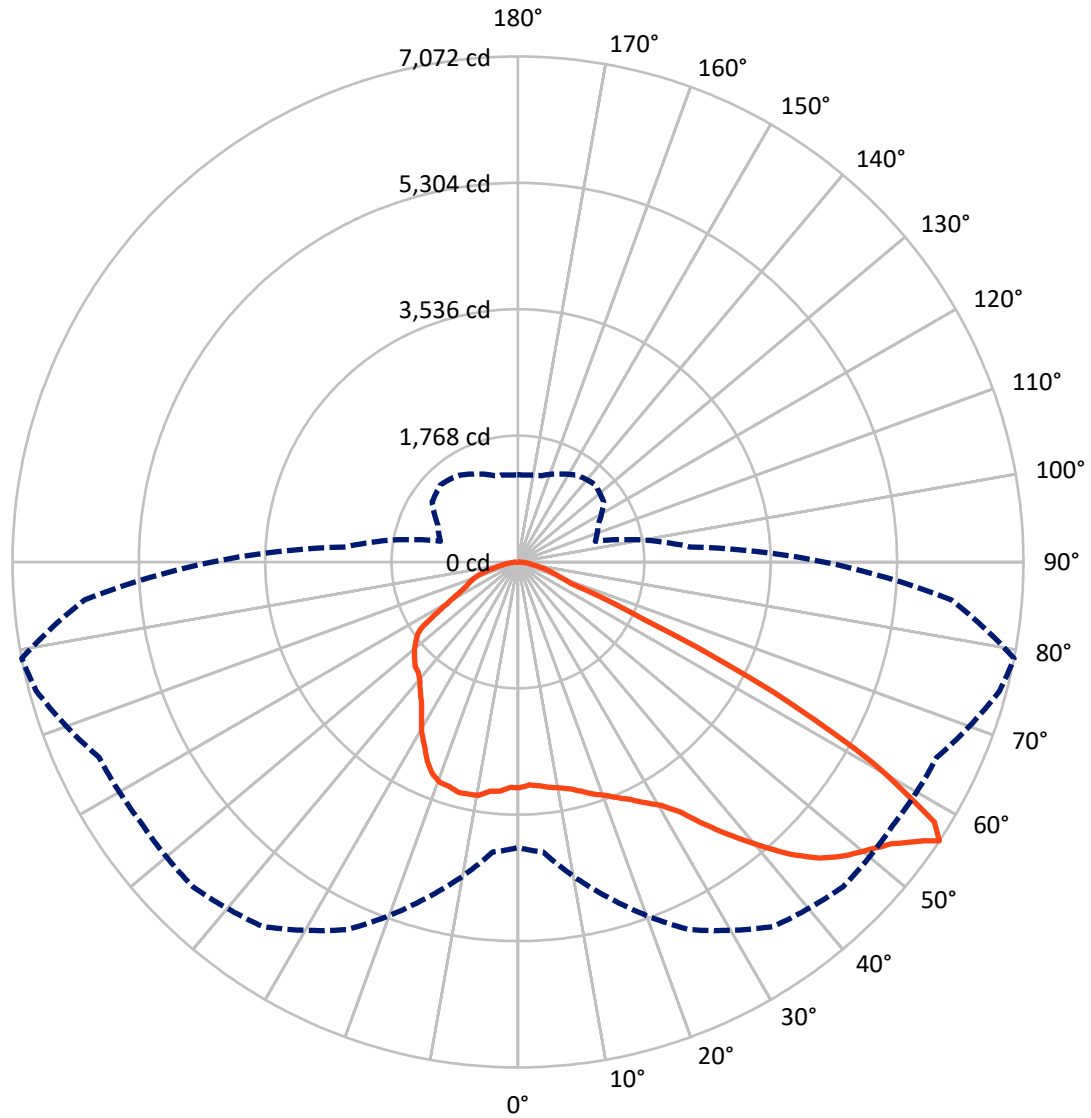
✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3644.9	0.0	3644.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	8697.1	0.0	8697.1
	% Fixture	70.5	0.0	70.5
Total	Lumens	12342.0	0.0	12342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	2.3
10°-20°	785.7	6.4
20°-30°	1344.2	10.9
30°-40°	2060.2	16.7
40°-50°	2784.4	22.6
50°-60°	3197.9	25.9
60°-70°	1457.7	11.8
70°-80°	359.4	2.9
80°-90°	65.3	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°	12342.0	100.0
0°-180°	12342.0	100.0

Coefficient of Utilization

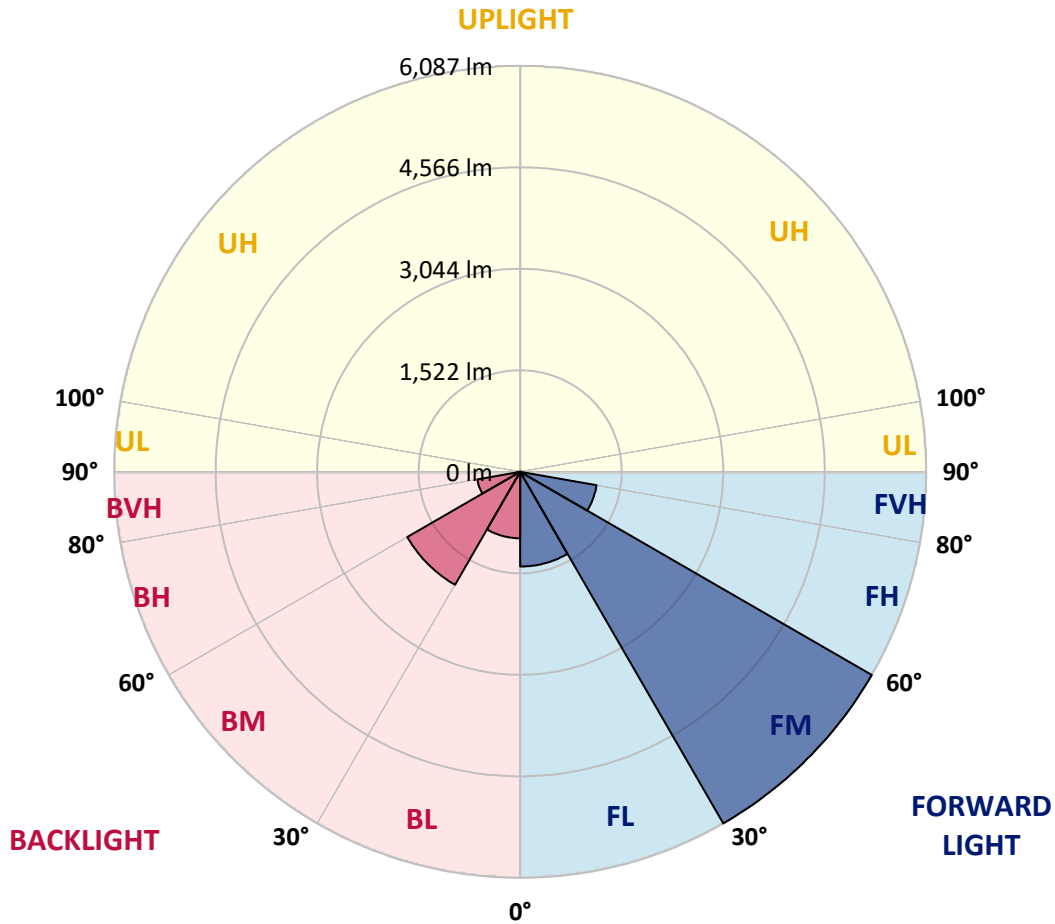


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1420.1	11.5			
FM (30°-60°)	6087.4	49.3			
FH (60°-80°)	1163.6	9.4			G1/1800
FVH (80°-90°)	26.1	0.2			G1/100
BL (0°-30°)	997.0	8.1	B2/1000		
BM (30°-60°)	1955.1	15.8	B2/2500		
BH (60°-80°)	653.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	39.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8
2.5°	3004.1	2996.4	3014.9	3028.7	3045.6	3067.1	3077.9	3084.0	3137.8	3124.0	3165.5
5°	2939.5	2919.5	2933.4	2944.1	2973.3	2999.5	3028.7	3074.8	3124.0	3145.5	3196.3
7.5°	2882.6	2871.9	2868.8	2876.5	2916.5	2950.3	3001.0	3068.7	3148.6	3184.0	3213.2
10°	2788.9	2773.5	2796.5	2847.3	2858.0	2928.8	2987.2	3084.0	3153.2	3214.7	3300.8
12.5°	2747.3	2732.0	2736.6	2765.8	2841.1	2908.8	2978.0	3087.1	3233.2	3257.8	3373.1
15°	2813.5	2798.1	2802.7	2795.0	2867.3	2902.6	3011.8	3148.6	3288.5	3330.0	3453.0
17.5°	2964.1	2965.7	2945.7	2928.8	2911.8	2987.2	3062.5	3185.5	3310.0	3414.6	3506.8
20°	3251.6	3200.9	3160.9	3065.6	3039.4	3071.7	3167.1	3285.4	3397.7	3483.8	3588.3
22.5°	3473.0	3477.6	3420.7	3263.9	3207.0	3220.9	3302.3	3399.2	3522.2	3583.7	3703.6
25°	3794.3	3762.0	3700.5	3576.0	3448.4	3459.2	3519.1	3606.8	3640.6	3683.6	3814.3
27.5°	4088.0	4097.2	3975.7	3858.9	3700.5	3669.8	3777.4	3792.8	3735.9	3817.4	3862.0
30°	4386.2	4378.5	4298.6	4161.8	4006.5	4012.6	4060.3	3985.0	3906.5	3951.1	3981.9
32.5°	4695.2	4607.6	4604.5	4481.5	4363.2	4306.3	4247.8	4284.7	4163.3	4172.5	4143.3
35°	4942.8	4955.1	4884.3	4796.7	4738.3	4638.3	4478.5	4544.6	4521.5	4510.7	4384.7
37.5°	5122.6	5075.0	5110.3	5081.1	5025.8	4901.2	4735.2	4798.2	4809.0	4861.3	4715.2
40°	5270.2	5250.2	5344.0	5359.4	5321.0	5051.9	4753.7	4941.2	5102.6	5216.4	5042.7
42.5°	5340.9	5384.0	5482.4	5600.8	5514.7	5227.2	4849.0	5050.4	5410.1	5590.0	5353.2
45°	5436.3	5380.9	5527.0	5743.7	5745.3	5374.8	4941.2	5198.0	5650.0	5911.3	5565.4
47.5°	5339.4	5367.1	5517.7	5792.9	5863.7	5530.0	5190.3	5407.1	5914.4	6146.5	5762.2
50°	5122.6	5178.0	5453.2	5739.1	5952.8	5694.5	5476.2	5633.1	6158.8	6335.6	5794.5
52.5°	4896.6	4927.4	5357.9	5780.6	5992.8	5906.7	5859.0	5945.1	6457.1	6549.3	5834.5
55°	4281.7	4427.7	5042.7	5762.2	6188.1	6289.5	6252.6	6378.7	6795.3	6887.6	6052.8
56°	3997.3	4074.1	4853.6	5676.1	6226.5	6429.4	6411.0	6467.9	6975.2	7072.1	6086.6
57.5°	3471.5	3477.6	4138.7	5294.8	6082.0	6470.9	6452.5	6497.1	6939.8	6873.7	5789.9
60°	2172.4	2267.7	2816.5	4072.6	5171.8	6003.6	6108.1	5749.9	5851.4	5711.5	4504.6
62.5°	1125.4	1111.5	1475.9	2381.4	3433.0	4298.6	4395.4	4378.5	4221.7	4017.2	2942.6
65°	561.2	564.2	771.8	1179.2	1758.8	2250.8	2521.3	2550.6	2133.9	1963.3	1396.0
67.5°	407.4	422.8	555.0	721.0	828.7	927.1	1136.1	1114.6	844.0	802.5	744.1
70°	316.7	330.5	450.5	550.4	499.7	499.7	544.2	562.7	601.1	618.0	638.0
72.5°	230.6	241.4	344.4	379.7	327.5	352.1	407.4	450.5	490.4	496.6	519.6
75°	158.4	167.6	226.0	209.1	196.8	242.9	298.3	338.2	367.4	382.8	396.7
77.5°	103.0	106.1	129.1	109.2	126.1	156.8	193.7	227.5	256.7	269.0	272.1
80°	46.1	50.7	55.3	69.2	87.6	112.2	138.4	166.0	184.5	189.1	198.3
82.5°	26.1	26.1	33.8	49.2	64.6	81.5	99.9	119.9	141.4	146.1	144.5
85°	13.8	13.8	20.0	29.2	40.0	47.7	46.1	47.7	50.7	58.4	56.9
87.5°	4.6	4.6	6.1	6.1	7.7	9.2	7.7	10.8	13.8	13.8	13.8
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°	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8
2.5°	3153.2	3167.1	3148.6	3188.6	3188.6	3180.9	3142.5	3154.8	3164.0	3164.0	3171.7
5°	3213.2	3208.6	3220.9	3173.2	3144.0	3133.2	3070.2	3039.4	3013.3	3011.8	2988.7
7.5°	3247.0	3234.7	3230.1	3194.7	3065.6	2987.2	2851.9	2773.5	2756.6	2696.6	2719.7
10°	3300.8	3323.9	3300.8	3108.6	2928.8	2748.9	2616.7	2495.2	2447.5	2409.1	2386.1
12.5°	3411.5	3400.7	3267.0	3007.2	2755.0	2541.3	2344.5	2216.9	2169.3	2135.5	2132.4
15°	3505.3	3451.5	3247.0	2847.3	2484.4	2256.9	2095.5	2004.8	1983.3	1986.3	2000.2
17.5°	3537.6	3500.7	3142.5	2681.2	2283.0	2015.5	1940.2	1926.4	1946.4	1969.4	1975.6
20°	3588.3	3529.9	3099.4	2455.2	2034.0	1864.9	1860.3	1909.5	1946.4	1980.2	1984.8
22.5°	3694.4	3546.8	2959.5	2241.5	1863.3	1820.3	1864.9	1906.4	1963.3	1990.9	1966.3
25°	3725.1	3509.9	2762.7	1984.8	1755.7	1792.6	1840.3	1897.2	1937.1	1952.5	1963.3
27.5°	3751.3	3453.0	2496.7	1814.1	1721.9	1791.1	1840.3	1887.9	1909.5	1923.3	1935.6
30°	3825.1	3436.1	2266.1	1700.4	1700.4	1760.3	1823.4	1835.7	1864.9	1881.8	1903.3
32.5°	3862.0	3319.3	2029.4	1628.1	1678.8	1775.7	1780.3	1803.4	1804.9	1818.7	1795.7
35°	3958.8	3236.2	1809.5	1575.8	1688.1	1760.3	1783.4	1769.6	1694.2	1657.3	1665.0
37.5°	4029.5	3194.7	1651.2	1569.7	1689.6	1777.2	1789.5	1685.0	1606.6	1545.1	1560.5
40°	4220.2	3091.7	1531.3	1558.9	1703.4	1795.7	1761.9	1648.1	1506.7	1443.6	1432.9
42.5°	4366.2	3017.9	1455.9	1546.6	1714.2	1821.8	1748.0	1574.3	1429.8	1371.4	1386.7
45°	4535.3	3001.0	1415.9	1549.7	1732.7	1835.7	1731.1	1517.4	1363.7	1340.6	1336.0
47.5°	4595.3	2879.6	1372.9	1523.6	1728.0	1831.0	1674.2	1474.4	1339.1	1342.2	1354.5
50°	4495.4	2755.0	1340.6	1469.8	1697.3	1789.5	1585.1	1417.5	1325.2	1363.7	1385.2
52.5°	4367.8	2627.4	1274.5	1397.5	1634.3	1725.0	1543.6	1414.4	1311.4	1299.1	1303.7
55°	4406.2	2522.9	1182.3	1299.1	1532.8	1605.1	1497.4	1385.2	1277.6	1231.5	1246.8
56°	4281.7	2415.3	1122.3	1237.6	1463.6	1528.2	1474.4	1359.1	1249.9	1219.2	1219.2
57.5°	3929.6	2054.0	1043.9	1139.2	1317.6	1394.4	1429.8	1343.7	1219.2	1165.4	1166.9
60°	2898.0	1460.5	936.3	1003.9	1091.6	1153.1	1317.6	1300.6	1142.3	1105.4	1091.6
62.5°	1786.5	1067.0	859.4	885.5	930.1	980.9	1150.0	1177.7	1060.8	1020.8	1011.6
65°	1000.9	816.4	801.0	811.7	833.3	859.4	954.7	1016.2	936.3	874.8	871.7
67.5°	731.8	730.3	742.6	751.8	761.0	761.0	784.1	808.7	797.9	748.7	744.1
70°	650.3	654.9	664.2	665.7	668.8	658.0	639.6	631.9	644.2	613.4	607.3
72.5°	536.6	551.9	562.7	564.2	547.3	533.5	508.9	482.7	473.5	467.4	465.8
75°	412.0	422.8	427.4	425.9	419.7	399.7	370.5	344.4	327.5	309.0	318.2
77.5°	278.3	293.6	301.3	301.3	292.1	261.4	247.5	227.5	210.6	190.6	193.7
80°	195.3	206.0	218.3	216.8	201.4	186.0	166.0	147.6	133.8	118.4	116.8
82.5°	146.1	152.2	158.4	155.3	144.5	129.1	115.3	98.4	83.0	72.3	72.3
85°	52.3	56.9	69.2	72.3	78.4	78.4	66.1	55.3	44.6	36.9	36.9
87.5°	15.4	15.4	16.9	16.9	15.4	16.9	13.8	15.4	16.9	10.8	10.8
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)