

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: P528396

Luminaire Tested: **GALN-SA3C-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528396
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-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 14722 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

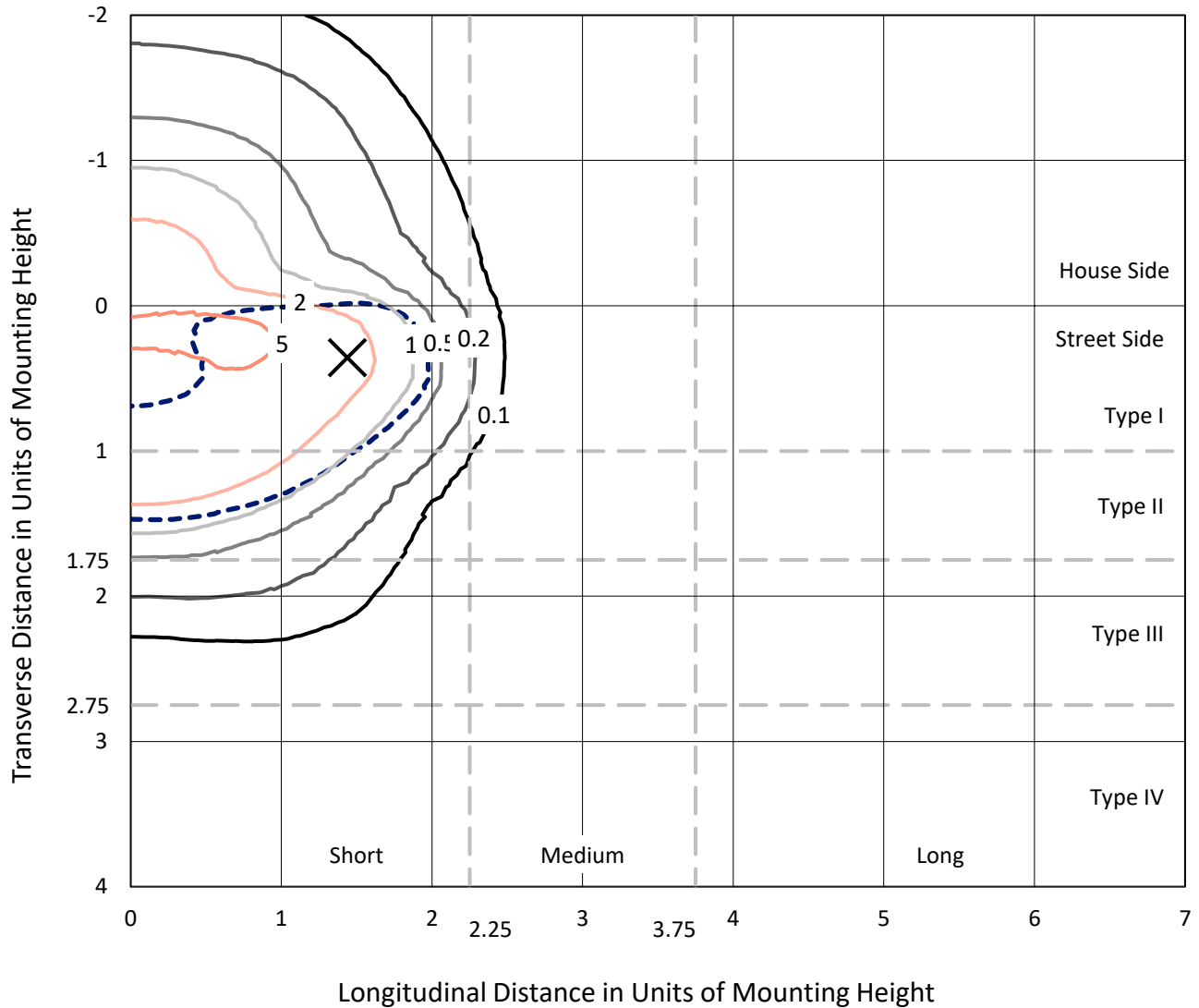
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

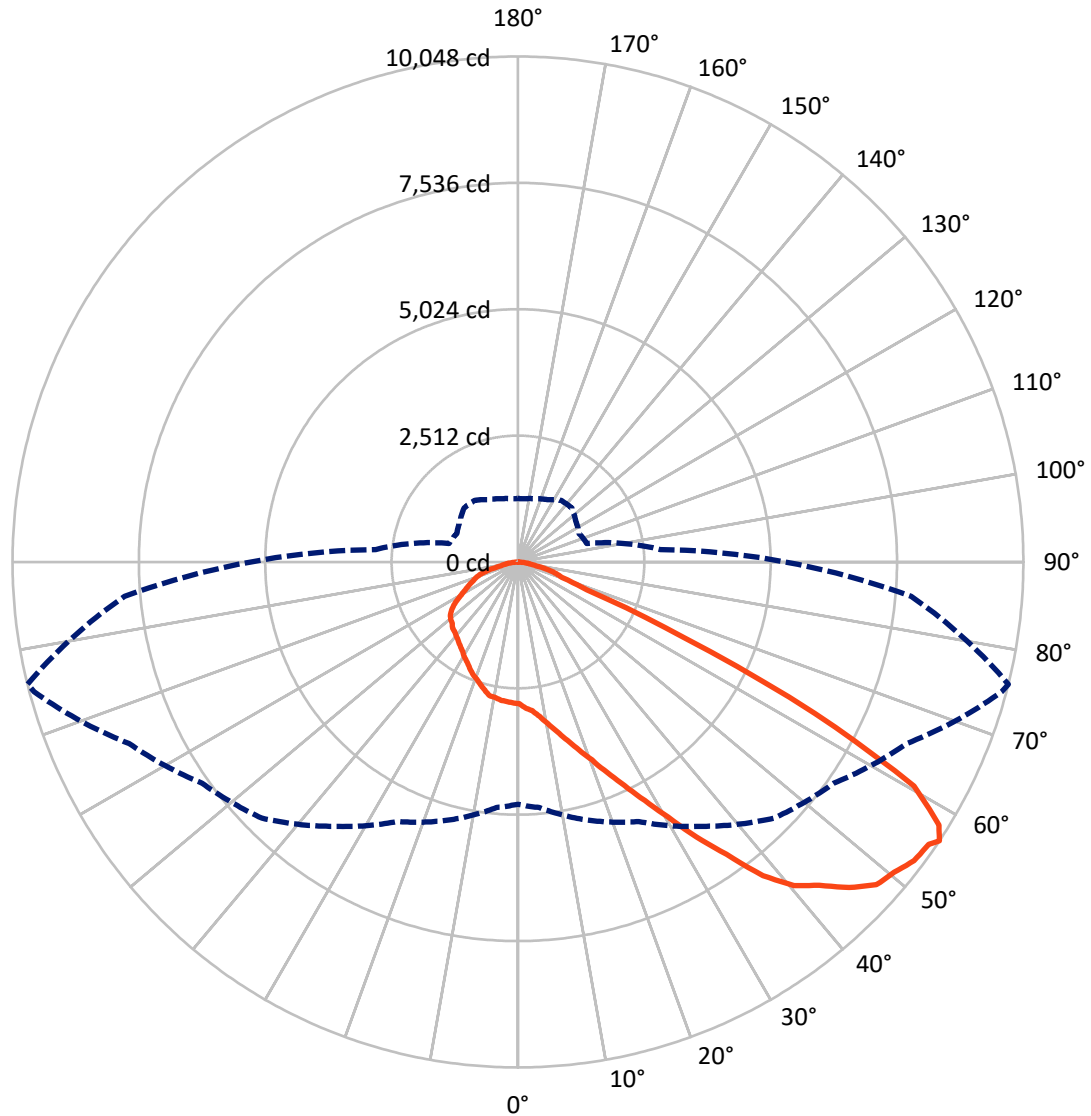
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3958.3	0.0	3958.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	10763.7	0.0	10763.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	14722.0	0.0	14722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	1.9
10°-20°	877.5	6.0
20°-30°	1534.7	10.4
30°-40°	2402.8	16.3
40°-50°	3495.5	23.7
50°-60°	3841.7	26.1
60°-70°	1714.8	11.6
70°-80°	495.3	3.4
80°-90°	80.3	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°	14722.0	100.0
0°-180°	14722.0	100.0

Coefficient of Utilization



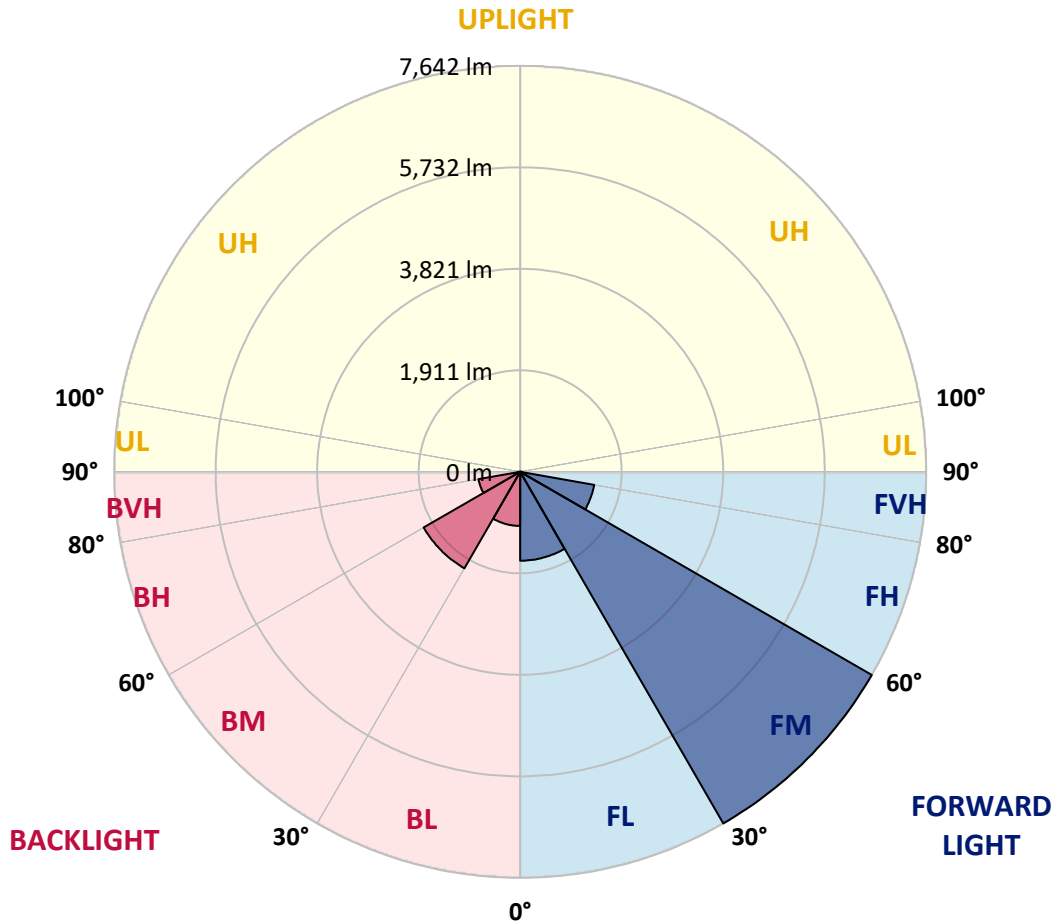
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1673.0	11.4			
FM (30°-60°)	7642.5	51.9			
FH (60°-80°)	1413.7	9.6			G1/1800
FVH (80°-90°)	34.6	0.2			G1/100
BL (0°-30°)	1018.5	6.9	B3/2500		
BM (30°-60°)	2097.6	14.2	B2/2500		
BH (60°-80°)	796.4	5.4	B2/1000		G2/1000
BVH (80°-90°)	45.8	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°	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9
2.5°	3103.1	3053.5	3049.7	3036.3	3044.0	3009.6	2973.4	2925.6	2876.0	2906.6	2834.0
5°	3320.7	3253.9	3280.6	3234.8	3240.5	3194.7	3120.3	3065.0	3003.9	2967.6	2916.1
7.5°	3397.0	3402.8	3421.8	3414.2	3376.0	3376.0	3326.4	3229.1	3122.2	3101.2	3015.3
10°	3500.1	3502.0	3481.0	3486.7	3540.2	3515.4	3471.5	3429.5	3292.1	3267.3	3114.6
12.5°	3536.3	3502.0	3536.3	3566.9	3629.9	3664.2	3654.7	3624.1	3477.2	3460.0	3236.7
15°	3542.1	3521.1	3549.7	3618.4	3673.8	3818.8	3891.3	3870.3	3675.7	3677.6	3374.1
17.5°	3515.4	3544.0	3555.4	3614.6	3742.5	3878.0	4087.9	4116.5	3956.2	3931.4	3547.8
20°	3551.6	3530.6	3545.9	3599.3	3769.2	3981.0	4255.8	4444.8	4219.6	4202.4	3727.2
22.5°	3690.9	3662.3	3658.5	3692.8	3815.0	4034.5	4433.3	4773.0	4540.2	4549.7	3950.5
25°	3799.7	3815.0	3801.6	3799.7	3876.1	4114.6	4668.1	5164.3	4975.3	4920.0	4213.8
27.5°	3986.7	4023.0	3996.3	4032.5	4015.4	4234.8	4836.0	5597.5	5444.8	5370.4	4452.4
30°	4246.3	4265.4	4240.6	4240.6	4189.0	4402.8	4988.7	6049.8	5986.8	5885.6	4732.9
32.5°	4587.9	4616.5	4566.9	4538.3	4530.6	4652.8	5263.5	6496.3	6603.2	6517.3	5105.1
35°	5040.2	5023.0	4963.9	4937.1	4834.1	5036.4	5671.9	7009.7	7290.3	7137.6	5555.5
37.5°	5439.1	5412.4	5408.5	5259.7	5284.5	5450.5	6019.2	7399.0	7956.3	7912.4	6030.7
40°	5811.2	5836.0	5876.1	5792.1	5754.0	5937.2	6423.8	7696.8	8473.5	8456.3	6397.1
42.5°	6210.1	6187.2	6257.8	6187.2	6129.9	6389.5	6862.8	7902.9	8927.7	8786.5	6780.7
45°	6788.3	6715.8	6740.6	6746.4	6704.4	6799.8	7044.1	8051.7	9246.4	9231.2	7061.2
47.5°	7271.2	7273.1	7231.1	7198.7	7070.8	7166.2	7246.4	8145.2	9612.8	9588.0	7170.0
50°	7450.6	7425.8	7547.9	7618.5	7626.1	7431.5	7404.8	8196.8	9805.6	9696.8	7278.8
52.5°	6805.5	6828.4	7021.2	7441.0	7683.4	7704.4	7589.9	8303.6	9883.8	9860.9	7366.6
55°	5477.2	5587.9	5904.7	6389.5	6963.9	7595.6	7790.3	8414.3	9925.8	9906.7	7755.9
56°	4815.0	4900.9	5313.1	5692.9	6414.3	7200.6	7664.3	8532.7	9958.3	10048.0	7847.5
57.5°	3876.1	3975.3	4271.1	4702.4	5553.6	6448.6	7317.0	8387.6	9832.3	9866.7	7914.3
60°	2423.7	2433.3	2788.2	3072.6	3671.8	4545.9	5584.1	7297.9	9099.5	9049.8	7109.0
62.5°	1589.7	1591.6	1914.2	2147.0	2419.9	2620.3	3286.3	4839.8	6713.9	6626.1	5061.2
65°	1116.4	1141.3	1391.3	1702.3	1813.0	1708.1	1687.1	2551.6	3750.1	3624.1	2719.5
67.5°	816.8	818.7	1040.1	1374.1	1534.4	1299.7	1055.4	1246.2	1484.8	1481.0	1259.6
70°	540.1	563.0	732.8	1026.7	1210.0	1043.9	862.6	891.2	944.7	944.7	937.0
72.5°	314.9	335.9	448.5	650.8	679.4	652.7	683.2	763.4	797.7	795.8	786.3
75°	179.4	188.9	213.7	271.0	337.8	398.9	501.9	578.3	612.6	633.6	608.8
77.5°	105.0	110.7	126.0	154.6	175.6	215.7	272.9	326.3	372.1	366.4	370.2
80°	55.3	55.3	70.6	91.6	122.1	152.7	181.3	211.8	236.6	242.4	248.1
82.5°	32.4	34.4	45.8	66.8	87.8	108.8	139.3	160.3	183.2	185.1	188.9
85°	17.2	19.1	28.6	43.9	59.2	66.8	68.7	64.9	70.6	66.8	76.3
87.5°	5.7	5.7	9.5	7.6	7.6	9.5	11.5	11.5	15.3	15.3	15.3
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°	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9
2.5°	2832.1	2832.1	2799.7	2738.6	2729.1	2704.3	2681.4	2679.5	2662.3	2647.0	2639.4
5°	2885.6	2826.4	2778.7	2723.4	2658.5	2627.9	2593.6	2555.4	2540.1	2555.4	2553.5
7.5°	2946.6	2897.0	2753.9	2650.8	2576.4	2545.9	2507.7	2467.6	2471.4	2471.4	2444.7
10°	3005.8	2939.0	2710.0	2578.3	2469.5	2446.6	2425.6	2440.9	2460.0	2463.8	2446.6
12.5°	3105.0	2954.3	2689.0	2505.8	2437.1	2387.5	2400.8	2442.8	2482.9	2471.4	2484.8
15°	3179.5	2967.6	2593.6	2431.4	2345.5	2368.4	2416.1	2444.7	2511.5	2503.9	2517.2
17.5°	3252.0	2975.3	2500.1	2332.1	2295.9	2358.8	2395.1	2477.2	2498.2	2544.0	2561.1
20°	3400.9	2990.5	2404.6	2271.1	2259.6	2332.1	2395.1	2433.3	2479.1	2519.1	2519.1
22.5°	3477.2	2982.9	2341.7	2190.9	2227.2	2273.0	2330.2	2395.1	2395.1	2433.3	2435.2
25°	3572.6	2952.4	2242.4	2152.7	2179.4	2223.3	2288.2	2265.3	2290.1	2290.1	2320.7
27.5°	3681.4	2887.5	2156.5	2084.0	2137.5	2185.2	2194.7	2179.4	2150.8	2147.0	2135.6
30°	3769.2	2807.3	2093.6	2061.1	2105.0	2131.7	2101.2	2068.8	2019.1	2015.3	1988.6
32.5°	3889.4	2708.1	2015.3	2003.9	2053.5	2055.4	2045.9	1996.2	1923.7	1893.2	1862.6
35°	4091.7	2650.8	1956.2	1973.3	1988.6	1982.9	1965.7	1912.3	1839.7	1826.4	1814.9
37.5°	4240.6	2608.8	1895.1	1916.1	1929.4	1937.1	1885.5	1826.4	1828.3	1801.6	1793.9
40°	4408.5	2582.1	1845.5	1855.0	1856.9	1881.7	1818.7	1790.1	1803.5	1786.3	1797.8
42.5°	4624.2	2589.8	1793.9	1786.3	1822.6	1813.0	1782.5	1744.3	1752.0	1700.4	1708.1
45°	4738.7	2641.3	1763.4	1729.1	1769.1	1767.2	1727.1	1690.9	1645.1	1545.8	1549.7
47.5°	4815.0	2654.6	1690.9	1668.0	1710.0	1734.8	1689.0	1605.0	1540.1	1469.5	1452.3
50°	4893.3	2679.5	1656.5	1608.8	1626.0	1685.2	1627.9	1547.7	1484.8	1421.8	1431.3
52.5°	4962.0	2727.2	1589.7	1519.1	1549.7	1614.5	1584.0	1486.7	1418.0	1366.4	1351.2
55°	5267.3	2834.0	1477.1	1385.5	1458.1	1540.1	1522.9	1404.6	1330.2	1303.5	1299.7
56°	5315.0	2837.9	1418.0	1339.7	1406.5	1515.3	1494.3	1368.4	1301.6	1259.6	1261.5
57.5°	5322.7	2792.1	1334.0	1297.7	1355.0	1479.0	1452.3	1339.7	1248.1	1210.0	1198.5
60°	4683.3	2179.4	1229.0	1206.1	1272.9	1368.4	1358.8	1261.5	1158.4	1114.5	1135.5
62.5°	3192.8	1597.4	1147.0	1143.2	1177.5	1271.0	1246.2	1158.4	1072.5	1043.9	1030.6
65°	1858.8	1211.9	1066.8	1051.6	1080.2	1129.8	1147.0	1055.4	965.7	946.6	940.9
67.5°	1097.4	1001.9	963.8	939.0	929.4	959.9	973.3	919.9	830.2	803.5	826.4
70°	918.0	891.2	893.2	851.2	828.3	807.3	795.8	748.1	673.7	639.3	629.8
72.5°	792.0	780.6	772.9	734.8	713.8	666.0	616.4	568.7	513.4	484.7	486.7
75°	605.0	601.2	605.0	585.9	549.6	511.5	465.7	404.6	362.6	326.3	334.0
77.5°	360.7	372.1	377.9	370.2	355.0	320.6	292.0	251.9	211.8	183.2	179.4
80°	248.1	257.6	267.2	257.6	242.4	217.6	187.0	156.5	127.9	112.6	108.8
82.5°	188.9	198.5	204.2	194.7	175.6	148.9	127.9	106.9	84.0	68.7	64.9
85°	68.7	78.2	76.3	91.6	99.2	95.4	82.1	63.0	47.7	34.4	32.4
87.5°	19.1	17.2	19.1	19.1	19.1	17.2	15.3	15.3	15.3	9.5	7.6
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)