

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: P533688

Luminaire Tested: **GALN-SA9A-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-827-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27501 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

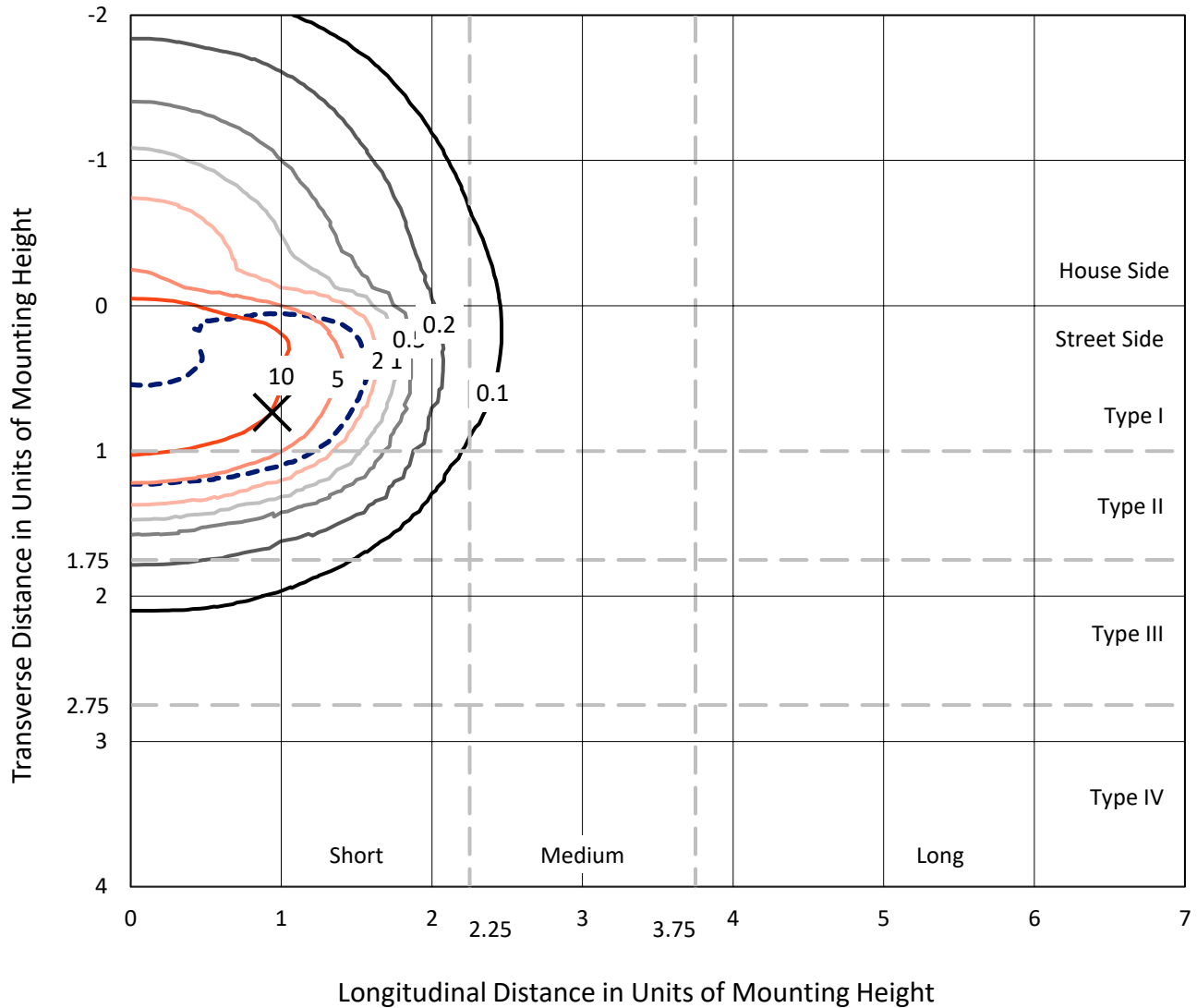
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

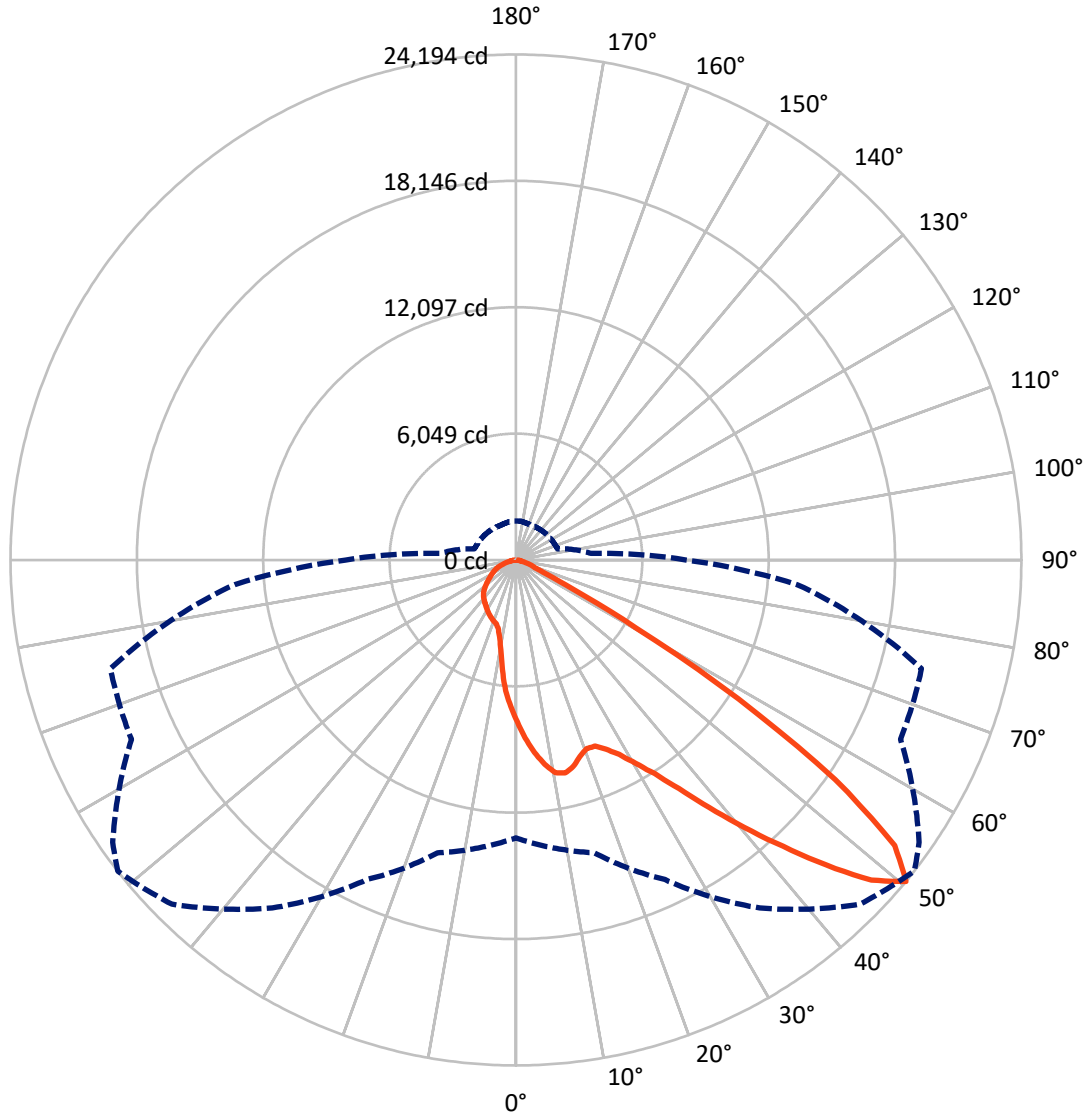
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5169.5	0.0	5169.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	22331.5	0.0	22331.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	27501.0	0.0	27501.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	714.5	2.6
10°-20°	1915.1	7.0
20°-30°	3225.8	11.7
30°-40°	5413.2	19.7
40°-50°	8280.9	30.1
50°-60°	6037.4	22.0
60°-70°	1343.6	4.9
70°-80°	484.6	1.8
80°-90°	85.8	0.3
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°	27501.0	100.0
0°-180°	27501.0	100.0

**Coefficient of Utilization**



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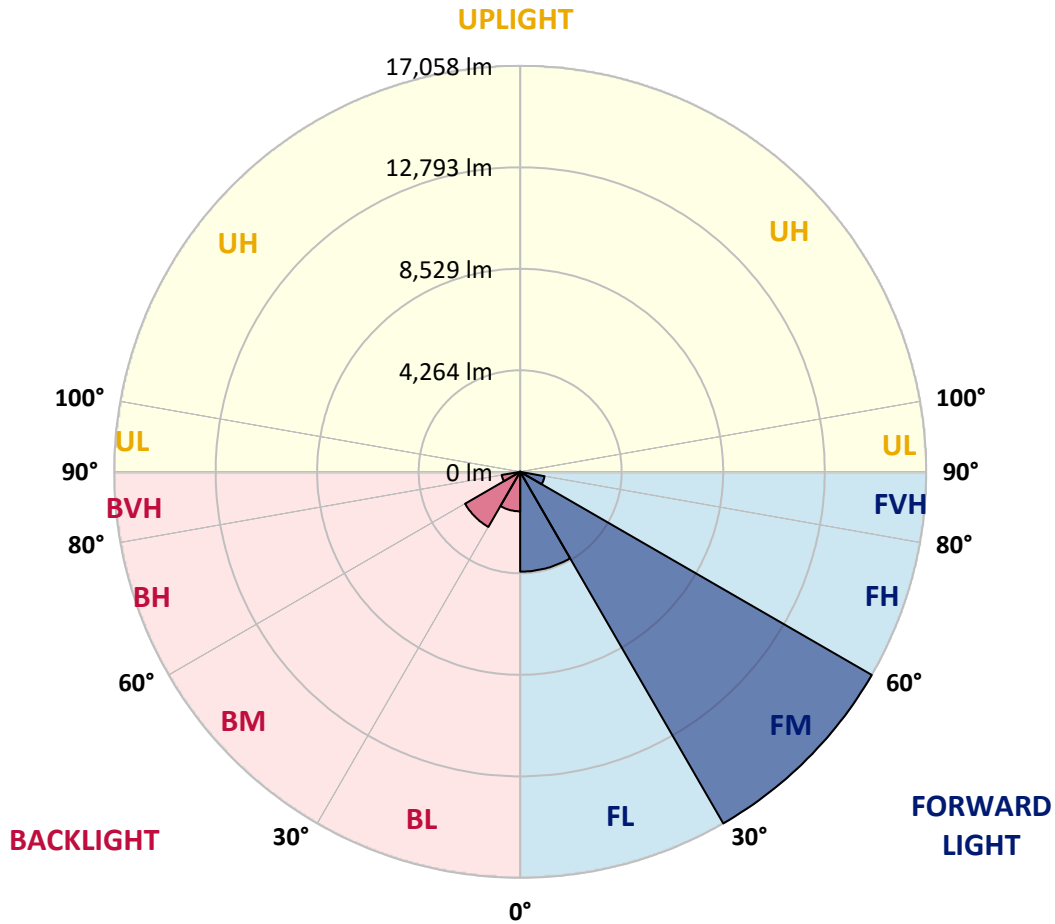
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4194.8	15.3			
FM (30°-60°)	17057.5	62.0			
FH (60°-80°)	1040.7	3.8			G1/1800
FVH (80°-90°)	38.4	0.1			G1/100
BL (0°-30°)	1660.6	6.0	B3/2500		
BM (30°-60°)	2674.0	9.7	B3/5000		
BH (60°-80°)	787.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	47.3	0.2			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°	52°	55°	65°	75°	85°
0°	7752.1	7752.1	7752.1	7752.1	7752.1	7752.1	7752.1	7752.1	7752.1	7752.1	7752.1
2.5°	9127.5	8951.8	8971.7	8845.8	8709.9	8670.1	8530.9	8398.4	8298.9	8086.8	7891.3
5°	9976.0	9922.9	9843.4	9744.0	9641.2	9389.3	9246.8	9081.1	8716.5	8388.4	8063.6
7.5°	10098.6	10088.6	10131.7	10131.7	10168.2	10072.1	9869.9	9753.9	9366.1	8832.5	8229.3
10°	9236.9	9266.7	9475.5	9747.3	10125.1	10386.9	10353.8	10323.9	9899.7	9170.6	8424.9
12.5°	8550.8	8484.5	8607.2	8839.2	9405.9	10038.9	10466.5	10469.8	10360.4	9710.8	8567.4
15°	8163.0	8209.4	8242.6	8352.0	8779.5	9512.0	10264.3	10486.3	10966.9	10092.0	8792.8
17.5°	8411.6	8255.8	8249.2	8275.7	8494.5	9044.6	9889.8	10270.9	11298.3	10582.5	9071.2
20°	8736.4	8733.1	8640.3	8607.2	8603.8	9094.4	9644.5	10161.5	11474.0	11218.8	9352.9
22.5°	9306.5	9306.5	9154.0	9081.1	8925.3	9326.4	9677.7	10029.0	11765.7	11656.3	9488.8
25°	10261.0	10105.2	9843.4	9664.4	9574.9	9717.4	10029.0	10343.8	12020.9	12120.3	9770.5
27.5°	11142.6	10897.3	10768.1	10459.8	10340.5	10257.7	10542.7	10860.9	12319.1	12842.8	9922.9
30°	12143.5	12100.4	11868.4	11470.7	11175.7	11023.3	11285.1	11599.9	12866.0	13581.9	10274.2
32.5°	13933.2	13542.1	13227.2	12740.1	12259.5	11934.7	12193.2	12402.0	13774.1	14354.1	10658.7
35°	15865.4	15739.5	15195.9	14317.6	13581.9	13290.2	13442.7	13598.4	14831.4	15534.0	11305.0
37.5°	17764.5	17592.1	17144.7	16405.6	15510.8	14917.5	15026.9	15209.2	16017.9	17124.8	12093.8
40°	19130.0	18917.8	18692.5	18583.1	17694.9	16882.9	16819.9	16866.3	17622.0	18616.3	12968.7
42.5°	19229.4	19491.2	19560.8	20001.6	19792.8	19126.6	18738.9	18748.8	19153.2	20091.1	13853.6
45°	19020.6	18778.7	19292.4	20495.4	21184.8	21496.4	20843.4	20760.6	20101.0	20946.2	14294.4
47.5°	16829.9	16896.1	17764.5	19666.9	21658.8	23050.7	22898.3	22623.2	20608.1	20916.4	14224.8
50°	13303.5	13704.5	14509.9	16879.6	20333.0	23296.0	24194.2	23557.8	20306.5	20094.4	13515.6
52.5°	8859.0	9024.8	9555.0	12614.1	16349.3	20823.6	22702.7	22848.6	20028.1	19017.3	12617.4
55°	3944.0	3930.7	4676.4	6588.8	10257.7	15845.5	18550.0	19438.2	18957.6	17920.3	11742.5
57.5°	1670.4	1726.7	2031.6	2847.0	5044.3	9561.7	12567.7	13346.6	14579.5	14715.4	9008.2
60°	1130.2	1136.8	1219.7	1425.1	2111.2	4490.8	6592.1	7526.7	8408.3	8348.6	4779.2
62.5°	888.2	911.4	974.4	1057.3	1252.8	2038.3	2949.7	3470.0	3526.4	2966.3	1812.9
65°	759.0	762.3	825.3	894.9	981.0	1186.5	1421.8	1448.3	1464.9	1411.9	1332.3
67.5°	626.4	633.0	682.7	762.3	841.8	908.1	974.4	1007.5	1083.8	1232.9	1213.0
70°	497.1	507.1	550.2	616.5	689.4	729.1	812.0	841.8	911.4	1027.4	1073.8
72.5°	377.8	381.1	417.6	464.0	530.3	570.1	639.7	672.8	719.2	818.6	861.7
75°	271.8	281.7	308.2	331.4	341.4	367.9	434.2	470.6	536.9	580.0	583.3
77.5°	142.5	149.1	155.8	155.8	188.9	238.6	281.7	301.6	348.0	381.1	364.6
80°	56.3	59.7	76.2	102.7	132.6	172.3	202.2	212.1	251.9	271.8	281.7
82.5°	33.1	36.5	49.7	72.9	96.1	122.6	145.8	155.8	182.3	205.5	212.1
85°	16.6	19.9	29.8	46.4	63.0	76.2	72.9	69.6	69.6	66.3	69.6
87.5°	6.6	6.6	9.9	9.9	9.9	13.3	16.6	16.6	16.6	19.9	19.9
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°	7752.1	7752.1	7752.1	7752.1	7752.1	7752.1	7752.1	7752.1	7752.1	7752.1	7752.1
2.5°	7762.0	7629.4	7506.8	7281.4	7036.2	6966.6	6681.6	6578.8	6505.9	6419.7	6393.2
5°	7801.8	7626.1	7231.7	6777.7	6416.4	5952.4	5647.5	5319.4	5080.8	5021.1	5004.5
7.5°	7884.6	7583.0	6903.6	6217.6	5478.5	4848.8	4368.2	4109.7	3881.0	3867.8	3844.6
10°	7977.4	7453.8	6545.7	5468.5	4524.0	3940.7	3652.3	3539.6	3483.3	3470.0	3463.4
12.5°	8053.7	7427.3	6144.7	4739.4	3847.9	3496.6	3410.4	3400.4	3423.6	3430.3	3443.5
15°	8086.8	7321.2	5660.8	4086.5	3427.0	3297.7	3334.2	3373.9	3390.5	3433.6	3400.4
17.5°	8149.8	7185.3	5064.2	3569.5	3191.6	3214.8	3277.8	3324.2	3350.7	3380.6	3337.5
20°	8182.9	7062.7	4504.1	3261.2	3108.8	3151.9	3238.0	3274.5	3307.6	3320.9	3271.2
22.5°	8153.1	6810.8	4010.3	3012.7	3029.2	3085.6	3161.8	3201.6	3181.7	3128.7	3098.8
25°	8073.6	6456.2	3496.6	2853.6	2916.6	3016.0	3075.6	3045.8	3009.4	2979.5	2969.6
27.5°	8070.2	6022.0	3125.4	2707.8	2820.4	2956.3	2936.4	2909.9	2926.5	2903.3	2876.8
30°	8086.8	5601.1	2820.4	2624.9	2750.8	2817.1	2840.3	2813.8	2833.7	2790.6	2803.9
32.5°	8000.6	5190.1	2621.6	2528.8	2668.0	2664.7	2740.9	2760.8	2714.4	2624.9	2638.2
35°	8037.1	4858.7	2452.6	2485.7	2575.2	2575.2	2634.8	2611.6	2489.0	2436.0	2449.2
37.5°	8289.0	4533.9	2369.7	2426.0	2485.7	2512.2	2492.3	2392.9	2363.1	2363.1	2369.7
40°	8527.6	4255.5	2320.0	2412.8	2402.8	2419.4	2273.6	2283.5	2283.5	2286.8	2270.3
42.5°	8739.7	4066.6	2280.2	2333.2	2349.8	2263.6	2174.2	2164.2	2187.4	2184.1	2170.8
45°	8816.0	3910.8	2223.9	2243.8	2257.0	2114.5	2071.4	2051.5	2078.0	2088.0	2101.2
47.5°	8524.3	3781.6	2160.9	2121.1	2094.6	2001.8	1945.5	1909.0	1942.2	1998.5	2011.8
50°	8149.8	3612.6	2061.5	1985.2	1928.9	1889.1	1849.4	1812.9	1836.1	1875.9	1865.9
52.5°	7596.3	3347.4	1935.5	1856.0	1759.9	1769.8	1733.4	1713.5	1726.7	1726.7	1716.8
55°	6807.5	2750.8	1723.4	1667.1	1587.5	1614.0	1620.7	1594.2	1567.6	1590.8	1571.0
57.5°	4646.6	1942.2	1537.8	1537.8	1458.3	1494.7	1491.4	1428.5	1365.5	1372.1	1358.9
60°	2687.9	1547.8	1418.5	1405.3	1322.4	1352.2	1358.9	1315.8	1219.7	1226.3	1213.0
62.5°	1527.9	1322.4	1239.5	1219.7	1203.1	1229.6	1229.6	1173.3	1090.4	1097.0	1083.8
65°	1299.2	1226.3	1107.0	1103.7	1097.0	1103.7	1077.1	1017.5	944.6	914.7	918.1
67.5°	1179.9	1133.5	1017.5	987.7	967.8	964.5	914.7	858.4	825.3	798.7	795.4
70°	1034.1	997.6	911.4	871.7	851.8	805.4	755.7	719.2	672.8	659.5	672.8
72.5°	818.6	815.3	782.2	739.1	696.0	659.5	616.5	566.7	523.7	513.7	490.5
75°	566.7	573.4	580.0	573.4	536.9	490.5	440.8	401.0	348.0	318.2	311.5
77.5°	371.2	381.1	391.1	377.8	354.6	311.5	278.4	228.7	188.9	165.7	162.4
80°	271.8	285.0	291.7	281.7	255.2	222.1	185.6	145.8	116.0	96.1	96.1
82.5°	208.8	222.1	228.7	212.1	185.6	159.1	132.6	102.7	79.5	63.0	59.7
85°	72.9	69.6	82.9	86.2	102.7	96.1	79.5	59.7	46.4	33.1	29.8
87.5°	19.9	19.9	23.2	23.2	19.9	16.6	16.6	16.6	13.3	9.9	9.9
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)