

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: P529724

Luminaire Tested: **GALN-SA4D-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-827-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19769 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

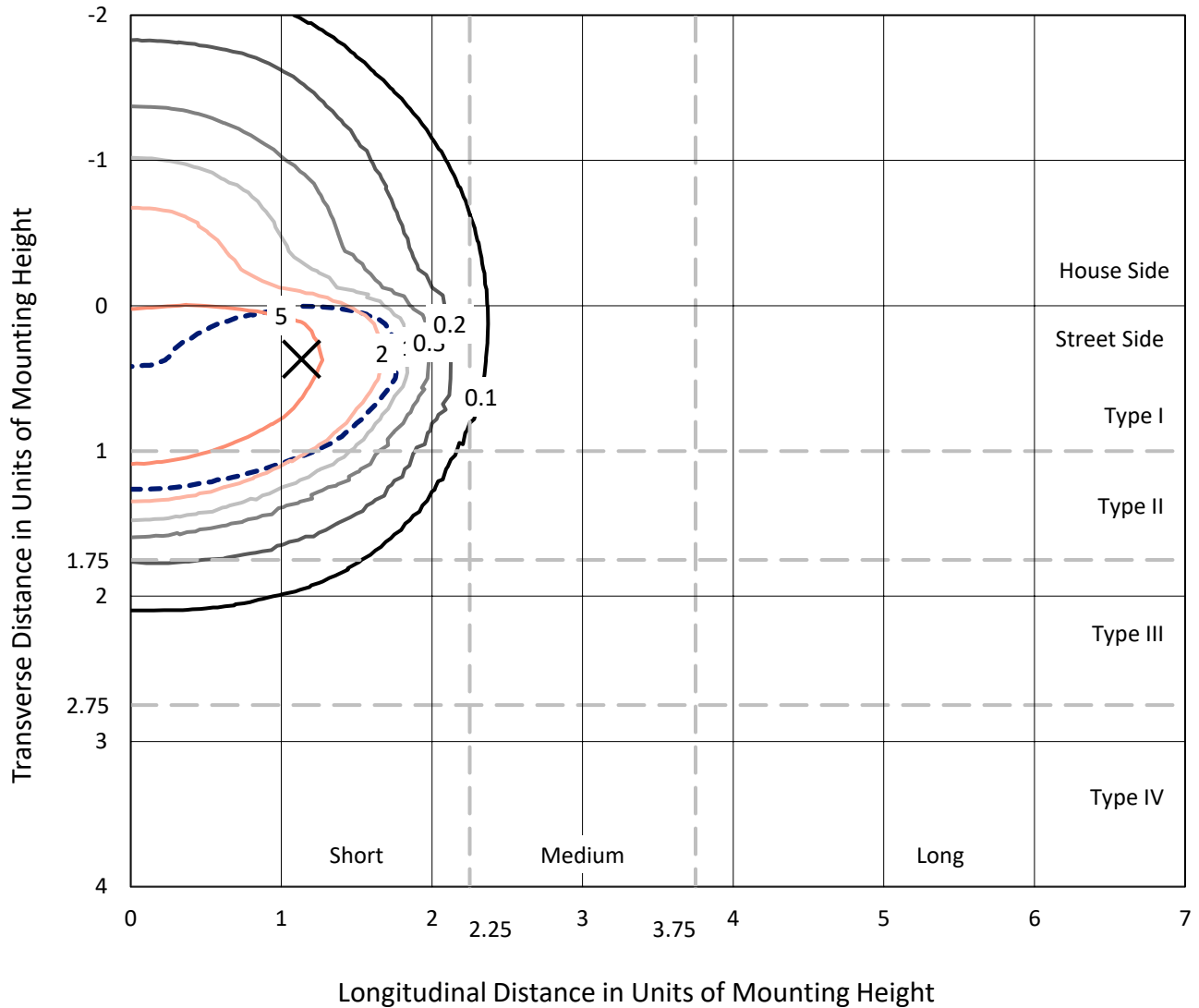
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

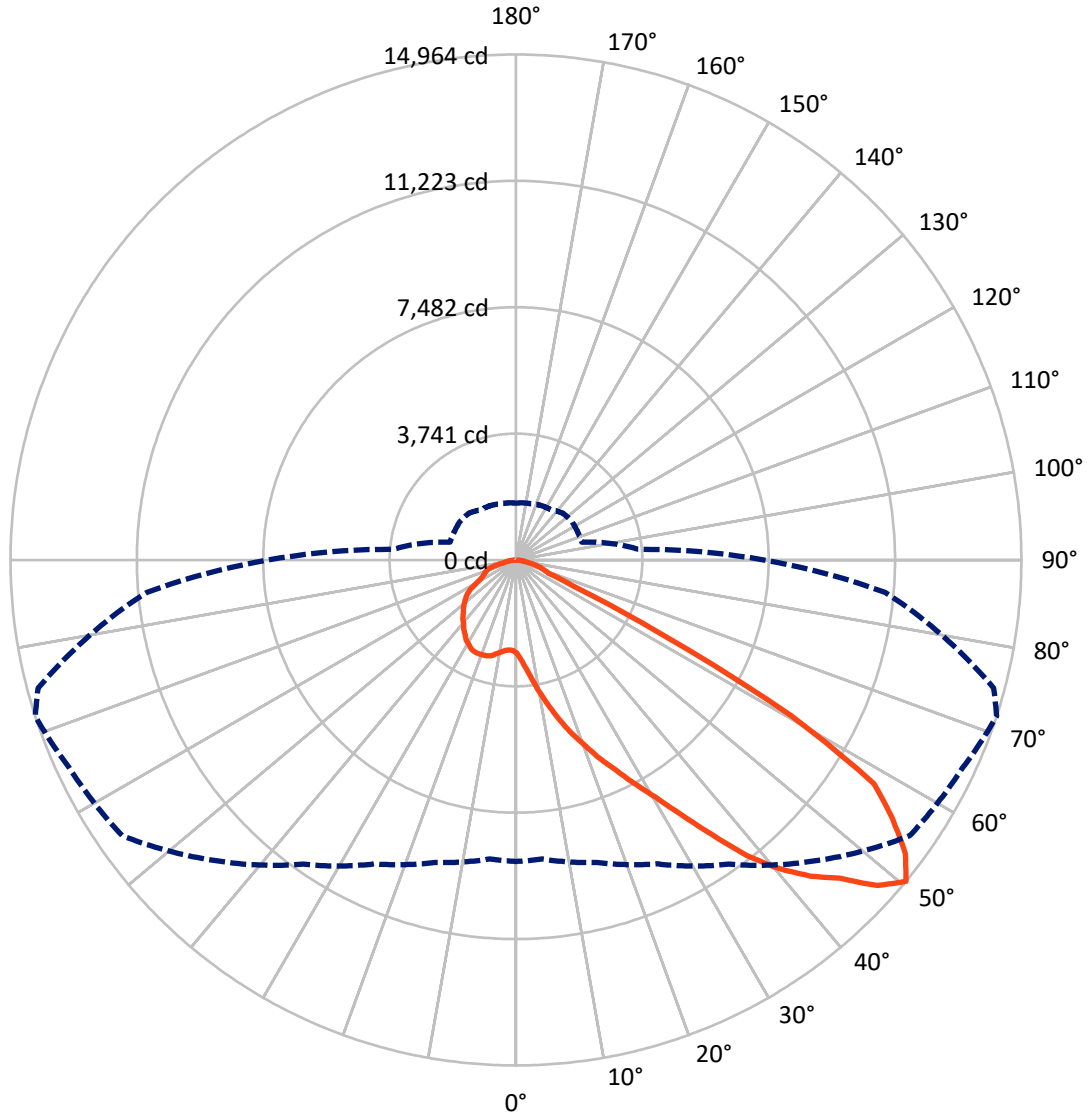
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4529.2	0.0	4529.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	15239.8	0.0	15239.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	19769.0	0.0	19769.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.7	1.6
10°-20°	1210.1	6.1
20°-30°	2346.3	11.9
30°-40°	3887.1	19.7
40°-50°	5438.9	27.5
50°-60°	4588.4	23.2
60°-70°	1398.5	7.1
70°-80°	490.6	2.5
80°-90°	85.3	0.4
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°	19769.0	100.0
0°-180°	19769.0	100.0

**Coefficient of Utilization**

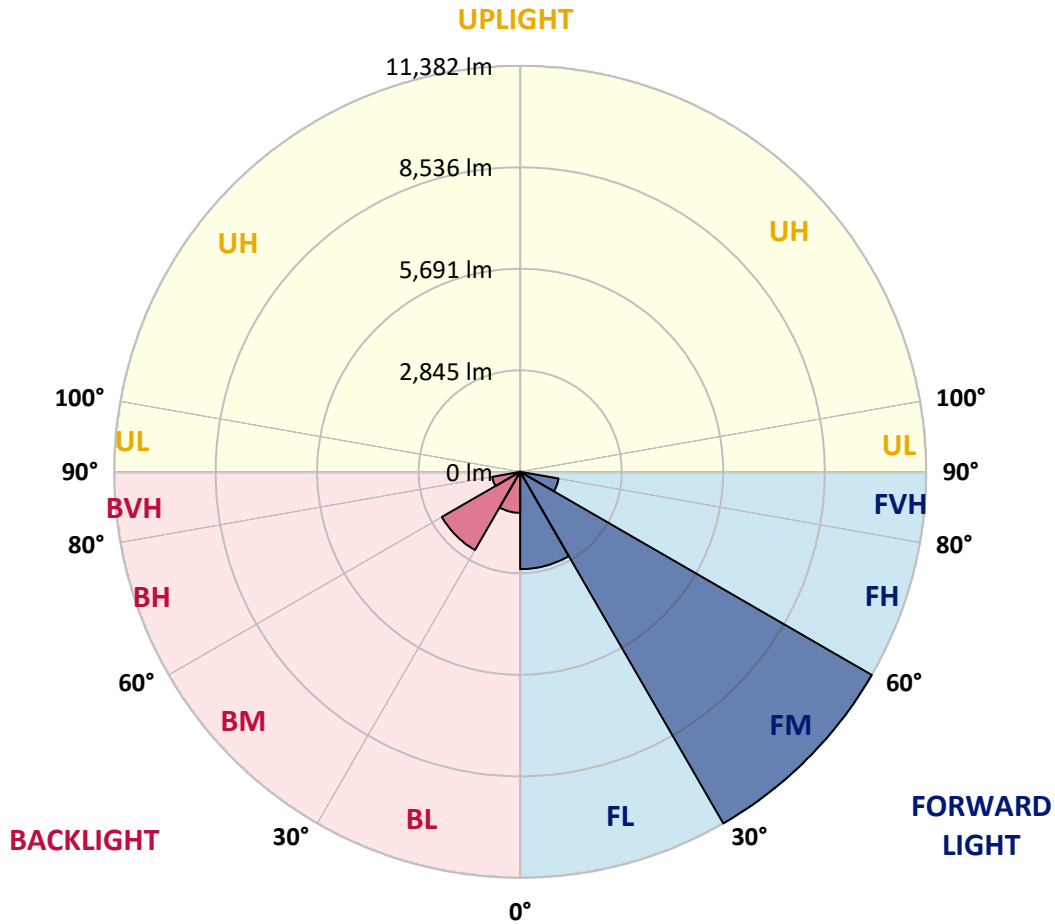


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2728.8	13.8			
FM (30°-60°)	11381.5	57.6			
FH (60°-80°)	1091.2	5.5			G1/1800
FVH (80°-90°)	38.2	0.2			G1/100
BL (0°-30°)	1151.3	5.8	B3/2500		
BM (30°-60°)	2532.8	12.8	B3/5000		
BH (60°-80°)	798.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	47.1	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°	55°	65°	72°	75°	85°
0°	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0
2.5°	3539.7	3517.7	3451.6	3429.6	3351.3	3209.5	3160.5	3016.2	2955.1	2898.8	2832.7
5°	4476.6	4373.9	4366.5	4241.8	4060.7	3955.6	3642.4	3432.1	3238.8	3141.0	2959.9
7.5°	5073.5	5075.9	5075.9	4973.2	4828.9	4562.2	4280.9	3901.7	3610.6	3466.3	3158.1
10°	5641.0	5592.1	5565.2	5555.4	5457.5	5198.2	4897.4	4427.7	4028.9	3860.2	3307.3
12.5°	6042.2	6000.6	6061.8	6030.0	5959.0	5790.2	5506.5	4970.7	4471.7	4244.2	3547.0
15°	6233.0	6262.4	6311.3	6399.3	6367.5	6303.9	5990.8	5528.5	4948.7	4691.9	3759.9
17.5°	6526.6	6445.8	6504.5	6614.6	6702.7	6673.3	6494.8	5932.1	5420.9	5105.3	4046.1
20°	6732.0	6685.6	6714.9	6842.1	6908.2	7074.5	6981.6	6460.5	5873.4	5540.7	4383.7
22.5°	7319.1	7250.6	7155.2	7174.8	7199.3	7316.7	7338.7	7040.3	6399.3	6047.1	4704.1
25°	8043.2	7979.6	7867.1	7752.1	7681.2	7659.2	7735.0	7495.3	6903.3	6538.8	5049.0
27.5°	8840.7	8733.1	8662.1	8424.8	8234.0	8204.7	8168.0	8038.3	7500.2	7106.3	5438.0
30°	9616.1	9530.5	9435.1	9056.0	8857.8	8826.0	8645.0	8681.7	8148.4	7710.5	5878.3
32.5°	10203.2	10210.6	9992.9	9706.7	9520.7	9352.0	9285.9	9391.1	8980.1	8627.9	6370.0
35°	10677.8	10699.8	10491.9	10232.6	10032.0	10149.4	10120.1	10169.0	9973.3	9542.8	6942.4
37.5°	11140.2	11030.1	10807.5	10682.7	10577.5	10770.8	11020.3	11061.9	11098.6	10592.2	7607.8
40°	11216.0	11225.8	11096.1	11184.2	11052.1	11343.2	11922.9	11869.1	12018.3	11575.6	8329.4
42.5°	11108.3	11130.4	11181.7	11306.5	11624.5	11974.3	12835.4	12615.2	12796.3	12402.4	9031.5
45°	10932.2	10841.7	10905.3	11379.9	11930.3	12708.2	13669.6	13498.3	13439.6	13109.4	9868.1
47.5°	10090.7	10183.7	10381.8	10966.5	11793.3	12835.4	14261.5	14222.4	14398.5	14166.1	10628.9
50°	8923.9	8887.2	9268.8	9926.8	10993.4	12585.9	14229.7	14584.4	14963.6	14640.7	10968.9
52.5°	6683.1	6878.8	7206.6	8023.6	9545.2	11225.8	13535.0	14127.0	14435.2	14366.7	10694.9
55°	4224.6	4283.4	4481.5	5452.7	6822.5	9009.5	11602.5	12974.8	13525.2	13782.1	10443.0
57.5°	2052.4	1942.3	2184.5	2964.8	3940.9	6059.3	8948.3	11301.6	12497.8	12962.6	9895.0
60°	1071.5	1113.0	1208.4	1487.3	2037.7	3145.9	5577.4	7532.0	9359.3	10073.6	7500.2
62.5°	888.0	902.7	966.3	1105.7	1355.2	1810.2	2847.4	3671.8	4772.6	5416.0	4266.2
65°	753.4	760.8	829.3	922.2	1081.2	1274.5	1465.3	1533.8	1856.7	1905.6	1516.7
67.5°	628.7	636.0	709.4	797.5	900.2	951.6	1000.5	995.6	1032.3	1017.6	1015.2
70°	484.4	491.7	567.5	660.5	711.9	682.5	834.2	868.4	883.1	895.3	914.9
72.5°	349.8	364.5	423.2	489.2	462.3	530.8	687.4	738.8	758.3	765.7	790.1
75°	254.4	259.3	274.0	254.4	293.5	369.4	484.4	548.0	572.4	579.8	616.5
77.5°	112.5	115.0	117.4	146.8	188.4	229.9	288.7	340.0	374.3	384.1	393.8
80°	58.7	61.2	75.8	100.3	134.5	168.8	210.4	239.7	261.7	264.2	274.0
82.5°	36.7	39.1	53.8	70.9	95.4	124.8	154.1	178.6	195.7	198.1	200.6
85°	17.1	22.0	31.8	44.0	63.6	80.7	83.2	70.9	75.8	78.3	73.4
87.5°	4.9	7.3	9.8	7.3	9.8	9.8	12.2	14.7	14.7	14.7	17.1
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°	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0	2752.0
2.5°	2796.0	2774.0	2688.4	2656.6	2573.4	2588.1	2544.1	2541.6	2531.9	2529.4	2527.0
5°	2864.5	2796.0	2693.3	2615.0	2568.5	2563.7	2531.9	2531.9	2541.6	2549.0	2531.9
7.5°	2977.1	2898.8	2725.1	2651.7	2610.1	2602.8	2580.8	2563.7	2585.7	2578.3	2558.8
10°	3106.7	2969.7	2786.3	2722.7	2654.2	2637.0	2637.0	2644.4	2607.7	2619.9	2600.3
12.5°	3251.0	3067.6	2864.5	2791.2	2710.4	2700.6	2695.7	2641.9	2661.5	2651.7	2602.8
15°	3434.5	3180.1	2964.8	2840.1	2771.6	2727.6	2663.9	2654.2	2641.9	2617.5	2595.5
17.5°	3632.7	3302.4	3011.3	2854.8	2752.0	2720.2	2671.3	2619.9	2583.2	2588.1	2571.0
20°	3801.4	3414.9	3028.4	2869.4	2737.3	2676.2	2600.3	2568.5	2529.4	2527.0	2524.5
22.5°	4002.0	3566.6	3052.9	2830.3	2693.3	2629.7	2578.3	2522.1	2495.2	2460.9	2478.0
25°	4241.8	3625.3	3057.8	2808.3	2661.5	2549.0	2522.1	2460.9	2451.1	2402.2	2412.0
27.5°	4415.5	3657.1	3018.7	2739.8	2588.1	2502.5	2453.6	2409.5	2392.4	2355.7	2345.9
30°	4647.8	3706.0	2935.5	2654.2	2514.7	2419.3	2390.0	2380.2	2331.3	2292.1	2287.2
32.5°	4912.0	3737.8	2881.7	2566.1	2438.9	2365.5	2380.2	2333.7	2272.6	2238.3	2228.5
35°	5122.4	3750.1	2747.1	2465.8	2387.5	2341.0	2323.9	2314.1	2226.1	2194.3	2169.8
37.5°	5442.9	3723.2	2634.6	2394.9	2331.3	2314.1	2299.5	2233.4	2133.1	2086.6	2052.4
40°	5817.1	3715.8	2490.3	2294.6	2277.4	2297.0	2253.0	2150.2	2010.8	1959.4	1935.0
42.5°	6176.7	3767.2	2399.8	2240.8	2218.7	2226.1	2164.9	2010.8	1942.3	1913.0	1873.8
45°	6778.5	3874.8	2250.5	2157.6	2147.8	2142.9	2069.5	1908.1	1868.9	1832.2	1824.9
47.5°	7321.6	3803.9	2155.1	2072.0	2081.7	2054.8	1898.3	1846.9	1802.9	1766.2	1753.9
50°	7353.4	3635.1	2020.6	2005.9	2008.4	1961.9	1812.7	1778.4	1722.1	1697.7	1680.6
52.5°	7187.0	3358.7	1895.8	1900.7	1908.1	1832.2	1707.5	1683.0	1636.5	1602.3	1592.5
55°	6719.8	2928.1	1773.5	1793.1	1812.7	1668.3	1629.2	1568.0	1531.3	1482.4	1484.9
57.5°	5919.9	2358.2	1602.3	1634.1	1675.7	1516.7	1487.3	1411.5	1357.7	1318.5	1313.6
60°	3967.8	1678.1	1345.4	1357.7	1450.6	1387.0	1384.6	1308.7	1235.3	1201.1	1181.5
62.5°	2341.0	1281.8	1162.0	1149.7	1147.3	1184.0	1245.1	1218.2	1122.8	1056.8	1076.3
65°	1225.6	1108.1	1081.2	1039.6	1015.2	1005.4	1051.9	1064.1	1000.5	929.6	924.7
67.5°	1029.9	1029.9	1007.8	993.2	958.9	917.3	888.0	848.8	839.1	819.5	795.0
70°	936.9	961.4	954.0	919.8	890.4	844.0	768.1	704.5	643.4	621.3	636.0
72.5°	817.0	841.5	841.5	824.4	785.2	714.3	640.9	567.5	516.2	477.0	472.1
75°	628.7	640.9	670.3	650.7	599.3	555.3	479.5	403.6	354.7	318.0	310.7
77.5°	401.2	420.8	420.8	418.3	381.6	340.0	291.1	237.3	200.6	173.7	166.3
80°	266.6	278.9	288.7	278.9	254.4	222.6	185.9	149.2	122.3	100.3	95.4
82.5°	195.7	210.4	217.7	207.9	183.5	159.0	132.1	105.2	78.3	61.2	56.3
85°	75.8	78.3	88.1	105.2	102.7	100.3	80.7	58.7	44.0	31.8	29.4
87.5°	19.6	17.1	19.6	19.6	17.1	14.7	14.7	14.7	14.7	7.3	9.8
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)