

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: P530256

Luminaire Tested: **GALN-SA5C-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530256
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-SA5C-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 26570 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

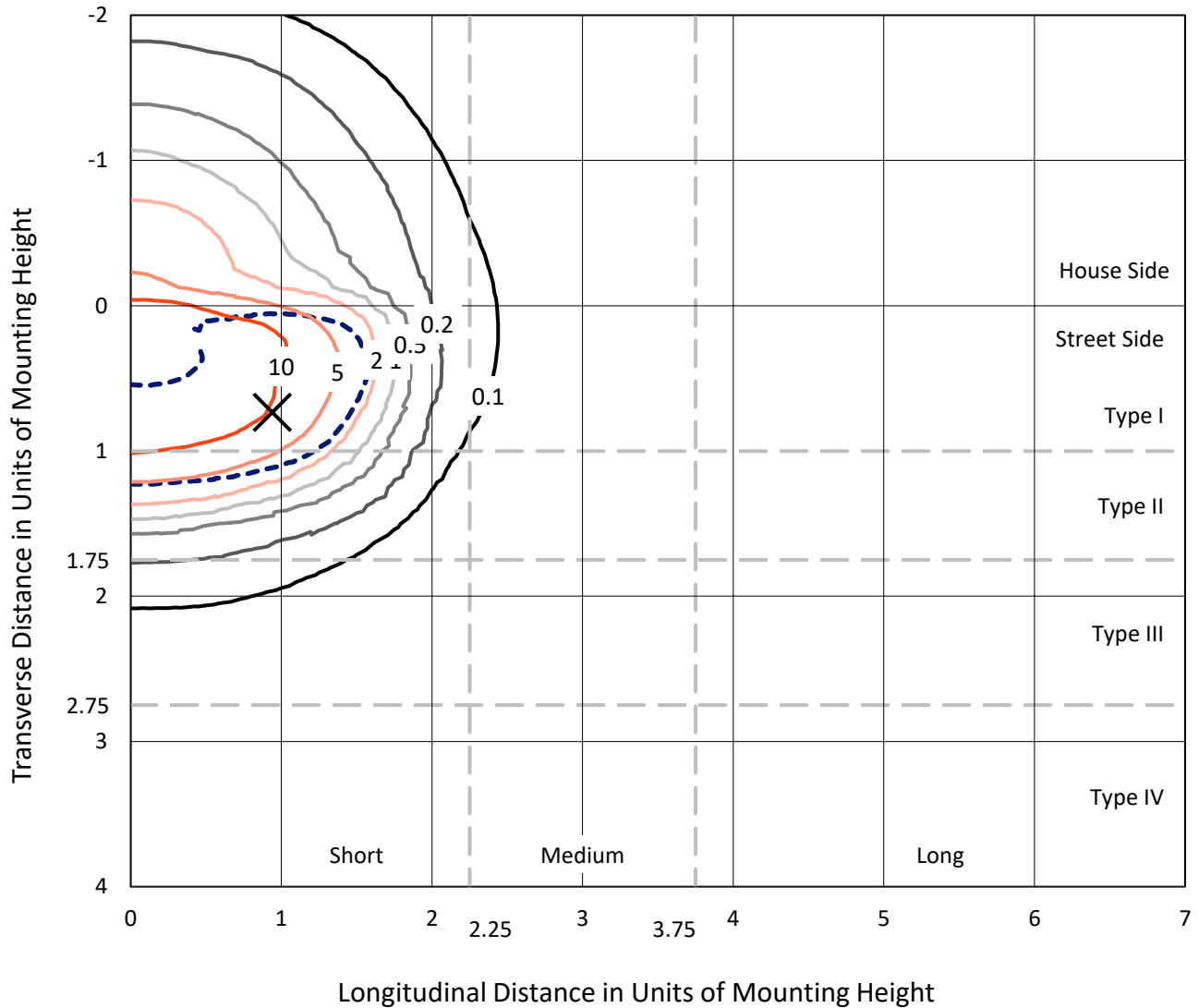
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

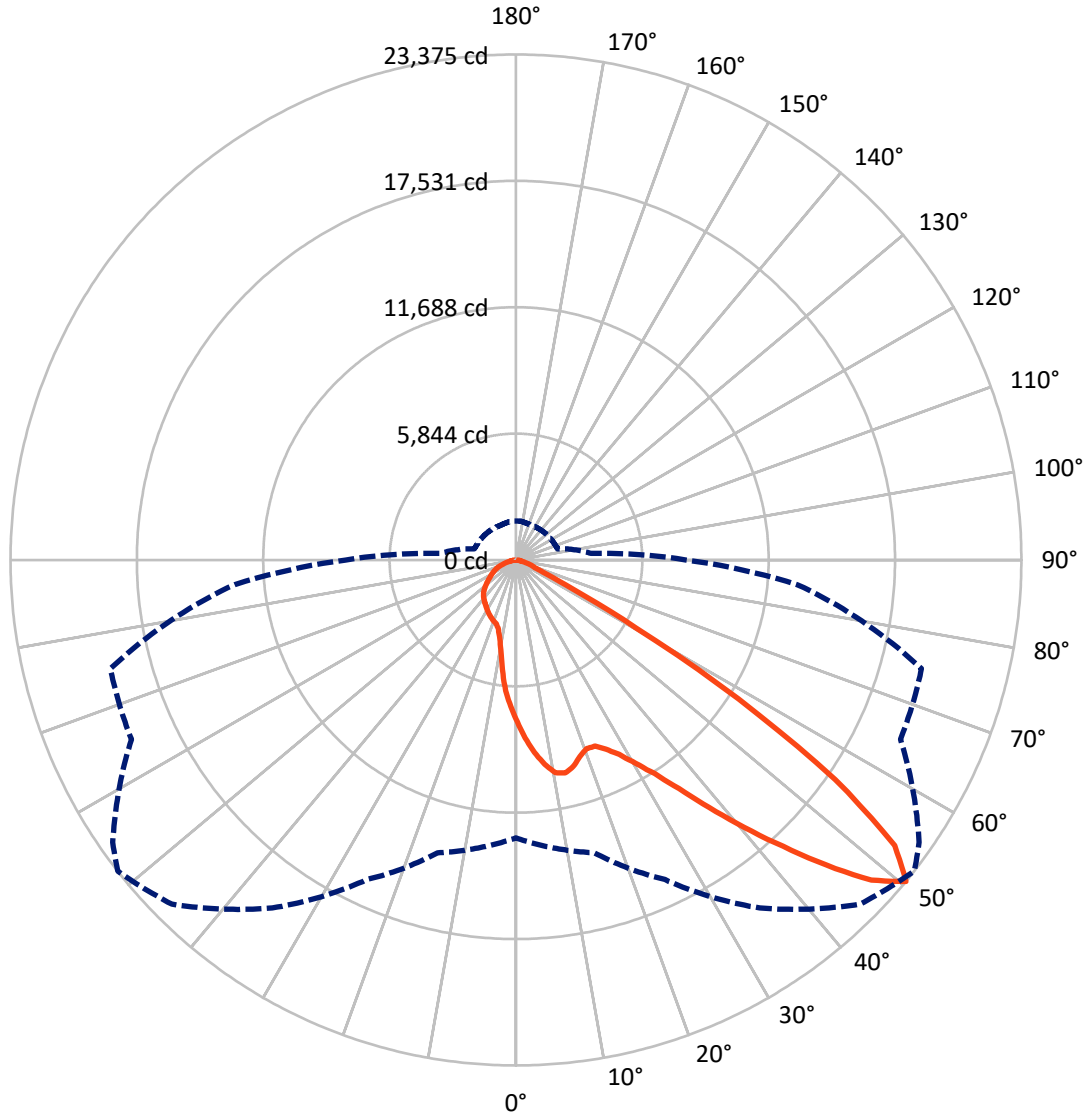
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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
House Side	Lumens	4994.5	0.0	4994.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	21575.5	0.0	21575.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	26570.0	0.0	26570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.3	2.6
10°-20°	1850.2	7.0
20°-30°	3116.6	11.7
30°-40°	5230.0	19.7
40°-50°	8000.6	30.1
50°-60°	5833.1	22.0
60°-70°	1298.1	4.9
70°-80°	468.2	1.8
80°-90°	82.9	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°	26570.0	100.0
0°-180°	26570.0	100.0

Coefficient of Utilization



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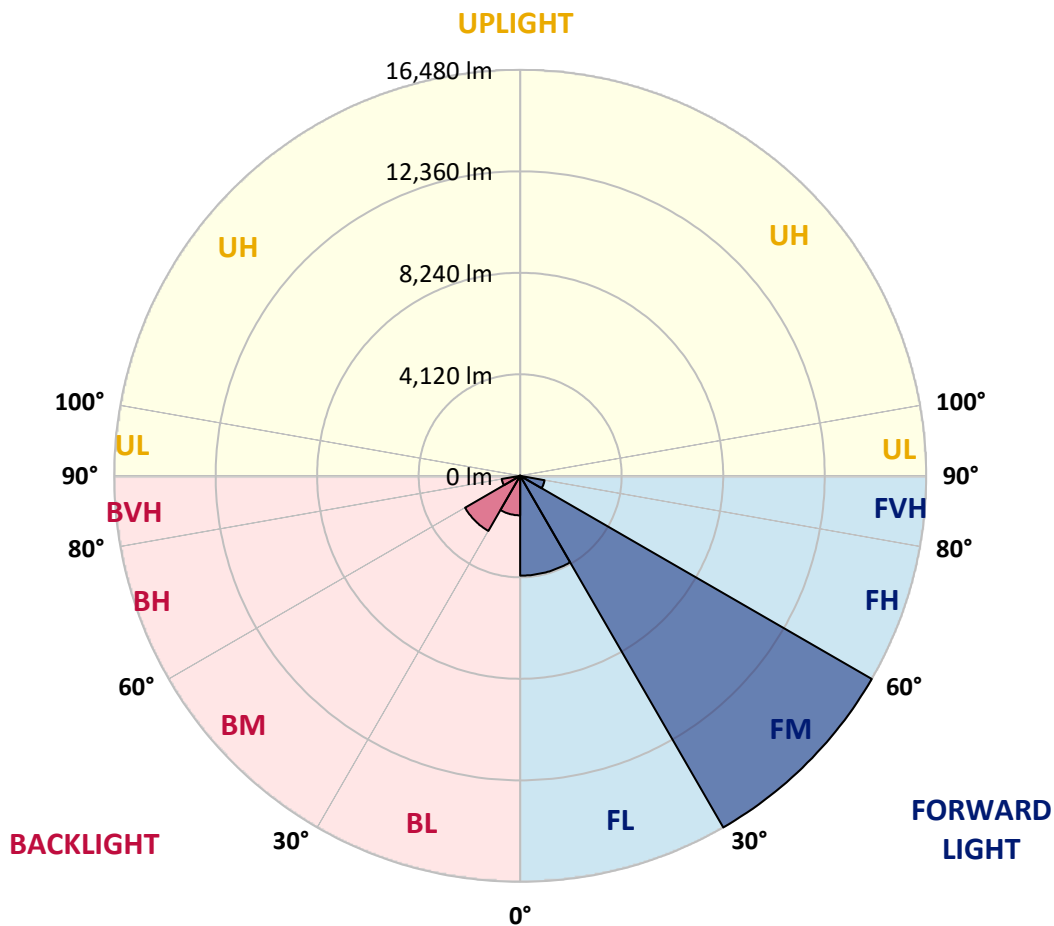
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4052.8	15.3			
FM (30°-60°)	16480.1	62.0			
FH (60°-80°)	1005.4	3.8			G1/1800
FVH (80°-90°)	37.1	0.1			G1/100
BL (0°-30°)	1604.3	6.0	B3/2500		
BM (30°-60°)	2583.5	9.7	B3/5000		
BH (60°-80°)	760.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	45.7	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°	7489.6	7489.6	7489.6	7489.6	7489.6	7489.6	7489.6	7489.6	7489.6	7489.6	7489.6
2.5°	8818.5	8648.8	8668.0	8546.3	8415.0	8376.6	8242.1	8114.0	8018.0	7813.1	7624.1
5°	9638.2	9587.0	9510.1	9414.1	9314.8	9071.5	8933.8	8773.7	8421.4	8104.4	7790.6
7.5°	9756.7	9747.1	9788.7	9788.7	9824.0	9731.1	9535.8	9423.7	9049.1	8533.5	7950.7
10°	8924.2	8953.0	9154.7	9417.3	9782.3	10035.3	10003.3	9974.4	9564.6	8860.1	8139.7
12.5°	8261.3	8197.3	8315.8	8539.9	9087.5	9699.1	10112.1	10115.3	10009.7	9382.1	8277.4
15°	7886.7	7931.5	7963.5	8069.2	8482.3	9189.9	9916.8	10131.4	10595.7	9750.3	8495.1
17.5°	8126.9	7976.4	7970.0	7995.6	8206.9	8738.4	9555.0	9923.2	10915.9	10224.2	8764.1
20°	8440.7	8437.5	8347.8	8315.8	8312.6	8786.5	9318.0	9817.5	11085.6	10839.0	9036.2
22.5°	8991.4	8991.4	8844.1	8773.7	8623.2	9010.6	9350.0	9689.5	11367.3	11261.7	9167.5
25°	9913.6	9763.1	9510.1	9337.2	9250.8	9388.5	9689.5	9993.7	11613.9	11710.0	9439.7
27.5°	10765.4	10528.4	10403.5	10105.7	9990.5	9910.4	10185.8	10493.2	11902.1	12408.0	9587.0
30°	11732.4	11690.8	11466.6	11082.4	10797.4	10650.1	10903.0	11207.2	12430.4	13122.1	9926.4
32.5°	13461.5	13083.7	12779.5	12308.8	11844.5	11530.7	11780.4	11982.1	13307.8	13868.2	10297.9
35°	15328.3	15206.6	14681.5	13832.9	13122.1	12840.3	12987.6	13138.1	14329.3	15008.1	10922.3
37.5°	17163.1	16996.6	16564.3	15850.2	14985.7	14412.5	14518.2	14694.3	15475.6	16545.1	11684.4
40°	18482.3	18277.4	18059.7	17954.0	17095.9	16311.3	16250.5	16295.3	17025.4	17986.0	12529.7
42.5°	18578.4	18831.4	18898.6	19324.5	19122.8	18479.1	18104.5	18114.1	18504.8	19411.0	13384.7
45°	18376.7	18142.9	18639.3	19801.6	20467.6	20768.6	20137.8	20057.8	19420.6	20237.1	13810.5
47.5°	16260.1	16324.2	17163.1	19001.1	20925.5	22270.4	22123.1	21857.3	19910.5	20208.3	13743.3
50°	12853.1	13240.6	14018.7	16308.1	19644.7	22507.4	23375.1	22760.3	19619.1	19414.2	13058.0
52.5°	8559.1	8719.2	9231.6	12187.1	15795.8	20118.6	21934.2	22075.1	19350.1	18373.5	12190.3
55°	3810.5	3797.7	4518.1	6365.7	9910.4	15309.1	17922.0	18780.1	18315.8	17313.6	11344.9
57.5°	1613.8	1668.3	1962.9	2750.6	4873.6	9238.0	12142.3	12894.7	14085.9	14217.2	8703.2
60°	1091.9	1098.3	1178.4	1376.9	2039.7	4338.8	6368.9	7271.9	8123.7	8066.0	4617.4
62.5°	858.2	880.6	941.4	1021.5	1210.4	1969.3	2849.8	3352.6	3407.0	2865.9	1751.5
65°	733.3	736.5	797.3	864.6	947.8	1146.3	1373.7	1399.3	1415.3	1364.1	1287.2
67.5°	605.2	611.6	659.6	736.5	813.3	877.4	941.4	973.4	1047.1	1191.2	1172.0
70°	480.3	489.9	531.5	595.6	666.0	704.5	784.5	813.3	880.6	992.6	1037.5
72.5°	365.0	368.2	403.5	448.3	512.3	550.8	618.0	650.0	694.8	790.9	832.5
75°	262.6	272.2	297.8	320.2	329.8	355.4	419.5	454.7	518.7	560.4	563.6
77.5°	137.7	144.1	150.5	150.5	182.5	230.5	272.2	291.4	336.2	368.2	352.2
80°	54.4	57.6	73.6	99.3	128.1	166.5	195.3	204.9	243.4	262.6	272.2
82.5°	32.0	35.2	48.0	70.4	92.9	118.5	140.9	150.5	176.1	198.5	204.9
85°	16.0	19.2	28.8	44.8	60.8	73.6	70.4	67.2	67.2	64.0	67.2
87.5°	6.4	6.4	9.6	9.6	9.6	12.8	16.0	16.0	16.0	19.2	19.2
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°	7489.6	7489.6	7489.6	7489.6	7489.6	7489.6	7489.6	7489.6	7489.6	7489.6	7489.6
2.5°	7499.2	7371.2	7252.7	7034.9	6798.0	6730.8	6455.4	6356.1	6285.7	6202.4	6176.8
5°	7537.7	7368.0	6986.9	6548.2	6199.2	5750.9	5456.3	5139.3	4908.8	4851.1	4835.1
7.5°	7617.7	7326.3	6669.9	6007.1	5293.0	4684.6	4220.3	3970.6	3749.6	3736.8	3714.4
10°	7707.4	7201.5	6324.1	5283.4	4370.8	3807.3	3528.7	3419.8	3365.4	3352.6	3346.2
12.5°	7781.0	7175.8	5936.6	4579.0	3717.6	3378.2	3294.9	3285.3	3307.7	3314.1	3327.0
15°	7813.1	7073.4	5469.1	3948.2	3310.9	3186.1	3221.3	3259.7	3275.7	3317.3	3285.3
17.5°	7873.9	6942.1	4892.8	3448.6	3083.6	3106.0	3166.8	3211.7	3237.3	3266.1	3224.5
20°	7905.9	6823.6	4351.6	3150.8	3003.5	3045.2	3128.4	3163.6	3195.7	3208.5	3160.4
22.5°	7877.1	6580.3	3874.5	2910.7	2926.7	2981.1	3054.8	3093.2	3074.0	3022.8	2993.9
25°	7800.2	6237.6	3378.2	2757.0	2817.8	2913.9	2971.5	2942.7	2907.5	2878.7	2869.1
27.5°	7797.0	5818.2	3019.6	2616.1	2725.0	2856.2	2837.0	2811.4	2827.4	2805.0	2779.4
30°	7813.1	5411.5	2725.0	2536.0	2657.7	2721.8	2744.2	2718.6	2737.8	2696.1	2709.0
32.5°	7729.8	5014.4	2532.8	2443.2	2577.7	2574.5	2648.1	2667.3	2622.5	2536.0	2548.8
35°	7765.0	4694.2	2369.5	2401.6	2488.0	2488.0	2545.6	2523.2	2404.8	2353.5	2366.3
37.5°	8008.4	4380.4	2289.5	2343.9	2401.6	2427.2	2408.0	2311.9	2283.1	2283.1	2289.5
40°	8238.9	4111.5	2241.4	2331.1	2321.5	2337.5	2196.6	2206.2	2206.2	2209.4	2193.4
42.5°	8443.9	3928.9	2203.0	2254.3	2270.3	2187.0	2100.6	2091.0	2113.4	2110.2	2097.4
45°	8517.5	3778.4	2148.6	2167.8	2180.6	2042.9	2001.3	1982.1	2007.7	2017.3	2030.1
47.5°	8235.7	3653.6	2087.7	2049.3	2023.7	1934.1	1879.6	1844.4	1876.4	1930.8	1943.7
50°	7873.9	3490.3	1991.7	1918.0	1863.6	1825.2	1786.8	1751.5	1773.9	1812.4	1802.8
52.5°	7339.1	3234.1	1870.0	1793.2	1700.3	1709.9	1674.7	1655.5	1668.3	1668.3	1658.7
55°	6577.1	2657.7	1665.1	1610.6	1533.8	1559.4	1565.8	1540.2	1514.6	1537.0	1517.8
57.5°	4489.3	1876.4	1485.8	1485.8	1408.9	1444.1	1440.9	1380.1	1319.3	1325.7	1312.8
60°	2596.9	1495.4	1370.5	1357.7	1277.6	1306.4	1312.8	1271.2	1178.4	1184.8	1172.0
62.5°	1476.2	1277.6	1197.6	1178.4	1162.4	1188.0	1188.0	1133.5	1053.5	1059.9	1047.1
65°	1255.2	1184.8	1069.5	1066.3	1059.9	1066.3	1040.7	983.0	912.6	883.8	887.0
67.5°	1139.9	1095.1	983.0	954.2	935.0	931.8	883.8	829.3	797.3	771.7	768.5
70°	999.0	963.8	880.6	842.1	822.9	778.1	730.1	694.8	650.0	637.2	650.0
72.5°	790.9	787.7	755.7	714.1	672.4	637.2	595.6	547.6	505.9	496.3	473.9
75°	547.6	554.0	560.4	554.0	518.7	473.9	425.9	387.5	336.2	307.4	301.0
77.5°	358.6	368.2	377.8	365.0	342.6	301.0	269.0	220.9	182.5	160.1	156.9
80°	262.6	275.4	281.8	272.2	246.6	214.5	179.3	140.9	112.1	92.9	92.9
82.5°	201.7	214.5	220.9	204.9	179.3	153.7	128.1	99.3	76.8	60.8	57.6
85°	70.4	67.2	80.1	83.3	99.3	92.9	76.8	57.6	44.8	32.0	28.8
87.5°	19.2	19.2	22.4	22.4	19.2	16.0	16.0	16.0	12.8	9.6	9.6
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)