

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: P529710

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529710
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-SA4D-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA 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: 20300 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

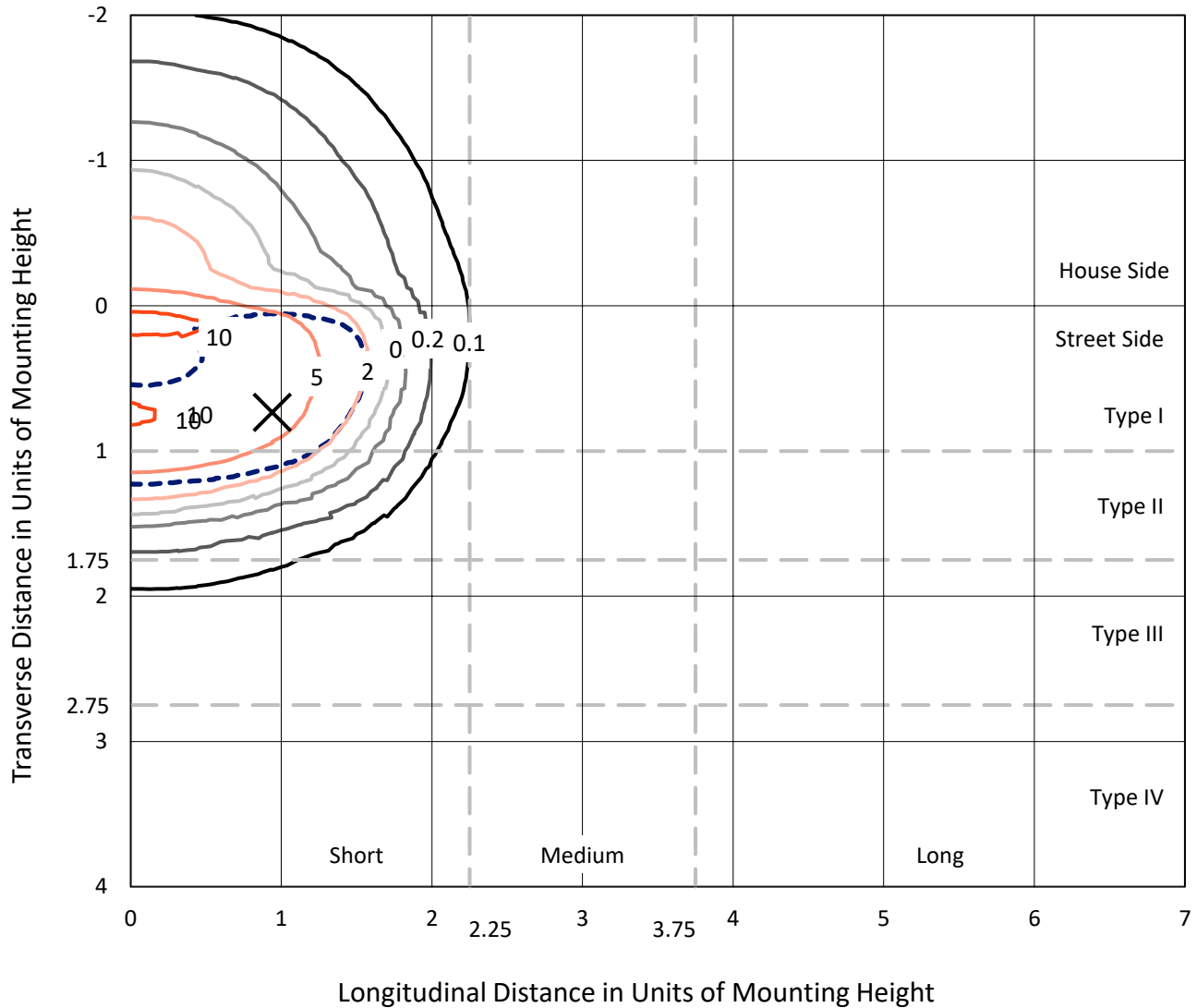
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

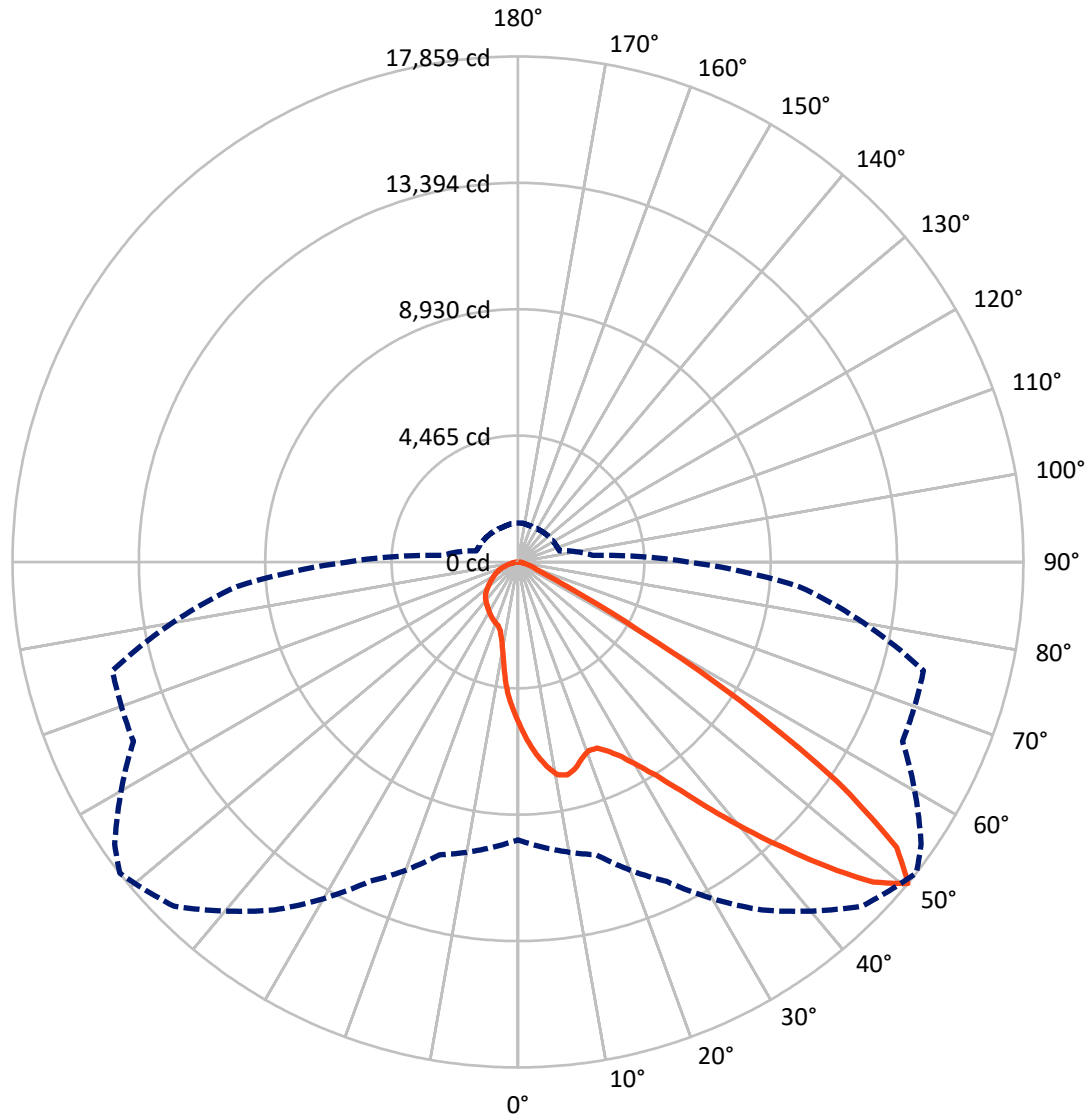
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	3815.9	0.0	3815.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16484.1	0.0	16484.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	20300.0	0.0	20300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.4	2.6
10°-20°	1413.6	7.0
20°-30°	2381.2	11.7
30°-40°	3995.8	19.7
40°-50°	6112.6	30.1
50°-60°	4456.6	22.0
60°-70°	991.8	4.9
70°-80°	357.7	1.8
80°-90°	63.3	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°	20300.0	100.0
0°-180°	20300.0	100.0

Coefficient of Utilization

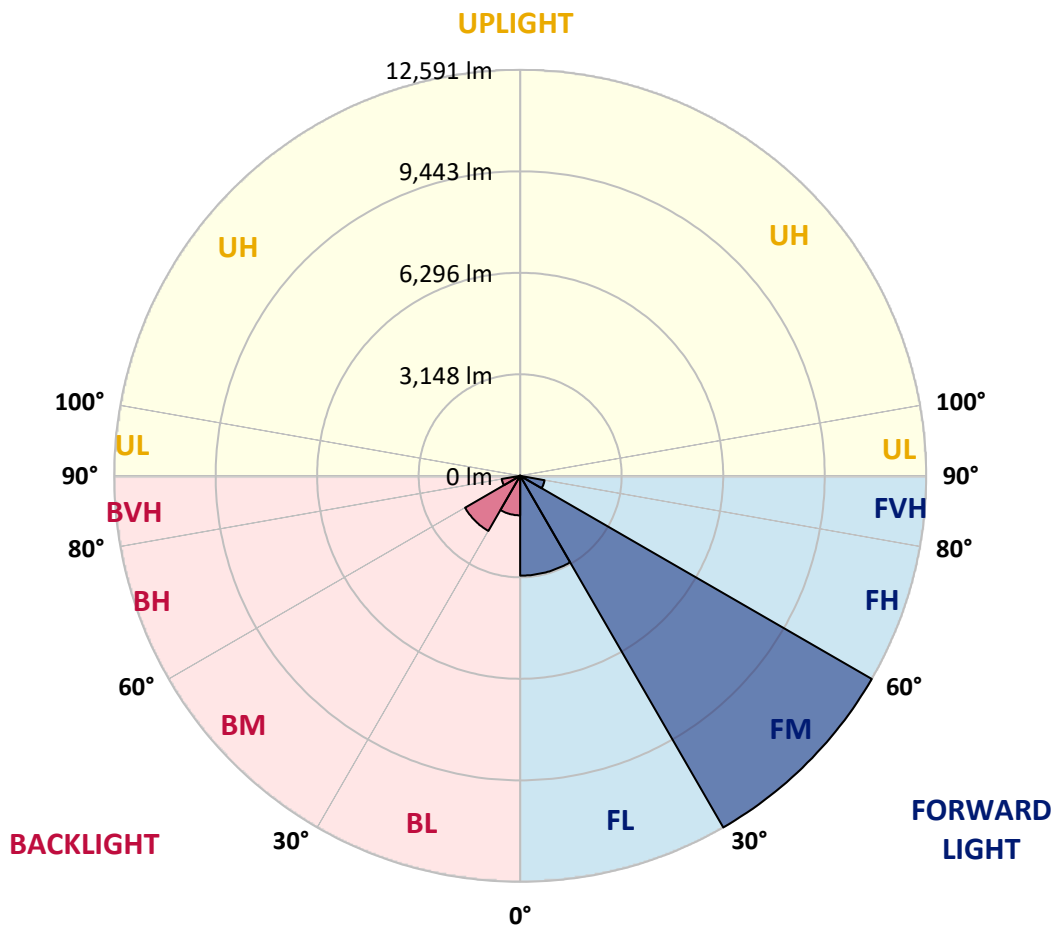


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3096.4	15.3			
FM (30°-60°)	12591.1	62.0			
FH (60°-80°)	768.2	3.8			G1/1800
FVH (80°-90°)	28.4	0.1			G1/100
BL (0°-30°)	1225.7	6.0	B3/2500		
BM (30°-60°)	1973.8	9.7	B2/2500		
BH (60°-80°)	581.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	34.9	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°	5722.2	5722.2	5722.2	5722.2	5722.2	5722.2	5722.2	5722.2	5722.2	5722.2	5722.2
2.5°	6737.5	6607.8	6622.5	6529.6	6429.3	6399.9	6297.1	6199.3	6125.9	5969.3	5825.0
5°	7363.8	7324.7	7265.9	7192.5	7116.7	6930.8	6825.6	6703.3	6434.1	6192.0	5952.2
7.5°	7454.3	7447.0	7478.8	7478.8	7505.7	7434.7	7285.5	7199.9	6913.7	6519.8	6074.5
10°	6818.2	6840.3	6994.4	7195.0	7473.9	7667.2	7642.7	7620.7	7307.5	6769.3	6218.9
12.5°	6311.8	6262.9	6353.4	6524.7	6943.0	7410.3	7725.9	7728.3	7647.6	7168.1	6324.1
15°	6025.6	6059.8	6084.3	6165.0	6480.6	7021.3	7576.6	7740.6	8095.3	7449.4	6490.4
17.5°	6209.1	6094.1	6089.2	6108.8	6270.2	6676.3	7300.2	7581.5	8339.9	7811.5	6695.9
20°	6448.8	6446.4	6377.9	6353.4	6351.0	6713.0	7119.2	7500.8	8469.6	8281.2	6903.9
22.5°	6869.6	6869.6	6757.1	6703.3	6588.3	6884.3	7143.6	7402.9	8684.9	8604.1	7004.2
25°	7574.2	7459.2	7265.9	7133.8	7067.8	7173.0	7402.9	7635.4	8873.3	8946.6	7212.1
27.5°	8224.9	8043.9	7948.5	7721.0	7632.9	7571.7	7782.1	8017.0	9093.4	9480.0	7324.7
30°	8963.8	8932.0	8760.7	8467.1	8249.4	8136.9	8330.1	8562.6	9497.1	10025.5	7584.0
32.5°	10284.9	9996.2	9763.8	9404.1	9049.4	8809.6	9000.5	9154.6	10167.4	10595.6	7867.8
35°	11711.1	11618.2	11216.9	10568.6	10025.5	9810.2	9922.8	10037.8	10947.8	11466.5	8344.8
37.5°	13112.9	12985.7	12655.5	12109.9	11449.4	11011.4	11092.2	11226.7	11823.7	12640.8	8927.1
40°	14120.9	13964.3	13797.9	13717.2	13061.6	12462.2	12415.7	12450.0	13007.7	13741.7	9572.9
42.5°	14194.3	14387.5	14438.9	14764.3	14610.2	14118.4	13832.2	13839.5	14138.0	14830.3	10226.1
45°	14040.1	13861.6	14240.8	15128.8	15637.7	15867.6	15385.7	15324.5	14837.7	15461.5	10551.5
47.5°	12423.0	12472.0	13112.9	14517.2	15987.5	17015.0	16902.5	16699.4	15212.0	15439.5	10500.1
50°	9820.0	10116.0	10710.5	12459.7	15008.9	17196.1	17859.0	17389.3	14989.4	14832.8	9976.6
52.5°	6539.3	6661.7	7053.1	9311.2	12068.3	15371.0	16758.1	16865.8	14783.9	14037.7	9313.6
55°	2911.3	2901.5	3451.9	4863.5	7571.7	11696.5	13692.7	14348.4	13993.7	13227.9	8667.8
57.5°	1233.0	1274.6	1499.7	2101.5	3723.5	7058.0	9276.9	9851.8	10761.9	10862.2	6649.4
60°	834.2	839.1	900.3	1052.0	1558.4	3314.9	4866.0	5555.9	6206.6	6162.6	3527.8
62.5°	655.6	672.8	719.3	780.4	924.8	1504.6	2177.3	2561.4	2603.0	2189.6	1338.2
65°	560.2	562.7	609.2	660.5	724.1	875.8	1049.5	1069.1	1081.3	1042.2	983.5
67.5°	462.4	467.3	504.0	562.7	621.4	670.3	719.3	743.7	800.0	910.1	895.4
70°	367.0	374.3	406.1	455.0	508.9	538.2	599.4	621.4	672.8	758.4	792.6
72.5°	278.9	281.3	308.3	342.5	391.4	420.8	472.2	496.6	530.9	604.3	636.1
75°	200.6	207.9	227.5	244.6	252.0	271.6	320.5	347.4	396.3	428.1	430.6
77.5°	105.2	110.1	115.0	115.0	139.4	176.1	207.9	222.6	256.9	281.3	269.1
80°	41.6	44.0	56.3	75.8	97.9	127.2	149.2	156.6	185.9	200.6	207.9
82.5°	24.5	26.9	36.7	53.8	70.9	90.5	107.6	115.0	134.6	151.7	156.6
85°	12.2	14.7	22.0	34.3	46.5	56.3	53.8	51.4	51.4	48.9	51.4
87.5°	4.9	4.9	7.3	7.3	7.3	9.8	12.2	12.2	12.2	14.7	14.7
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°	5722.2	5722.2	5722.2	5722.2	5722.2	5722.2	5722.2	5722.2	5722.2	5722.2	5722.2
2.5°	5729.6	5631.7	5541.2	5374.8	5193.8	5142.4	4932.0	4856.2	4802.4	4738.8	4719.2
5°	5758.9	5629.3	5338.1	5003.0	4736.3	4393.8	4168.7	3926.5	3750.4	3706.4	3694.1
7.5°	5820.1	5597.5	5095.9	4589.5	4044.0	3579.1	3224.4	3033.6	2864.8	2855.0	2837.9
10°	5888.6	5502.1	4831.7	4036.6	3339.4	2908.8	2696.0	2612.8	2571.2	2561.4	2556.5
12.5°	5944.9	5482.5	4535.7	3498.4	2840.3	2581.0	2517.4	2510.1	2527.2	2532.1	2541.9
15°	5969.3	5404.2	4178.5	3016.5	2529.6	2434.2	2461.1	2490.5	2502.7	2534.5	2510.1
17.5°	6015.8	5303.9	3738.2	2634.8	2355.9	2373.1	2419.5	2453.8	2473.4	2495.4	2463.6
20°	6040.3	5213.4	3324.7	2407.3	2294.8	2326.6	2390.2	2417.1	2441.6	2451.3	2414.6
22.5°	6018.3	5027.4	2960.2	2223.8	2236.1	2277.6	2333.9	2363.3	2348.6	2309.4	2287.4
25°	5959.5	4765.7	2581.0	2106.4	2152.9	2226.3	2270.3	2248.3	2221.4	2199.4	2192.0
27.5°	5957.1	4445.2	2307.0	1998.7	2081.9	2182.2	2167.5	2148.0	2160.2	2143.1	2123.5
30°	5969.3	4134.5	2081.9	1937.6	2030.5	2079.5	2096.6	2077.0	2091.7	2059.9	2069.7
32.5°	5905.7	3831.1	1935.1	1866.6	1969.4	1966.9	2023.2	2037.9	2003.6	1937.6	1947.4
35°	5932.6	3586.5	1810.4	1834.8	1900.9	1900.9	1944.9	1927.8	1837.3	1798.1	1807.9
37.5°	6118.6	3346.7	1749.2	1790.8	1834.8	1854.4	1839.7	1766.3	1744.3	1744.3	1749.2
40°	6294.7	3141.2	1712.5	1781.0	1773.7	1785.9	1678.3	1685.6	1685.6	1688.0	1675.8
42.5°	6451.3	3001.8	1683.2	1722.3	1734.5	1670.9	1604.9	1597.5	1614.7	1612.2	1602.4
45°	6507.5	2886.8	1641.6	1656.2	1666.0	1560.8	1529.0	1514.3	1533.9	1541.3	1551.0
47.5°	6292.3	2791.4	1595.1	1565.7	1546.2	1477.7	1436.1	1409.2	1433.6	1475.2	1485.0
50°	6015.8	2666.6	1521.7	1465.4	1423.8	1394.5	1365.1	1338.2	1355.3	1384.7	1377.3
52.5°	5607.3	2470.9	1428.7	1370.0	1299.1	1306.4	1279.5	1264.8	1274.6	1274.6	1267.3
55°	5025.0	2030.5	1272.2	1230.6	1171.8	1191.4	1196.3	1176.7	1157.2	1174.3	1159.6
57.5°	3429.9	1433.6	1135.2	1135.2	1076.4	1103.3	1100.9	1054.4	1007.9	1012.8	1003.0
60°	1984.1	1142.5	1047.1	1037.3	976.1	998.1	1003.0	971.2	900.3	905.2	895.4
62.5°	1127.8	976.1	915.0	900.3	888.1	907.6	907.6	866.0	804.9	809.8	800.0
65°	959.0	905.2	817.1	814.7	809.8	814.7	795.1	751.1	697.2	675.2	677.7
67.5°	870.9	836.7	751.1	729.0	714.4	711.9	675.2	633.6	609.2	589.6	587.1
70°	763.3	736.4	672.8	643.4	628.7	594.5	557.8	530.9	496.6	486.8	496.6
72.5°	604.3	601.8	577.4	545.6	513.8	486.8	455.0	418.3	386.5	379.2	362.1
75°	418.3	423.2	428.1	423.2	396.3	362.1	325.4	296.0	256.9	234.9	230.0
77.5°	274.0	281.3	288.7	278.9	261.8	230.0	205.5	168.8	139.4	122.3	119.9
80°	200.6	210.4	215.3	207.9	188.4	163.9	137.0	107.6	85.6	70.9	70.9
82.5°	154.1	163.9	168.8	156.6	137.0	117.4	97.9	75.8	58.7	46.5	44.0
85°	53.8	51.4	61.2	63.6	75.8	70.9	58.7	44.0	34.3	24.5	22.0
87.5°	14.7	14.7	17.1	17.1	14.7	12.2	12.2	12.2	9.8	7.3	7.3
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)