

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: P528788

Luminaire Tested: **GALN-SA3D-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528788  
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-SA3D-827-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 14918 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

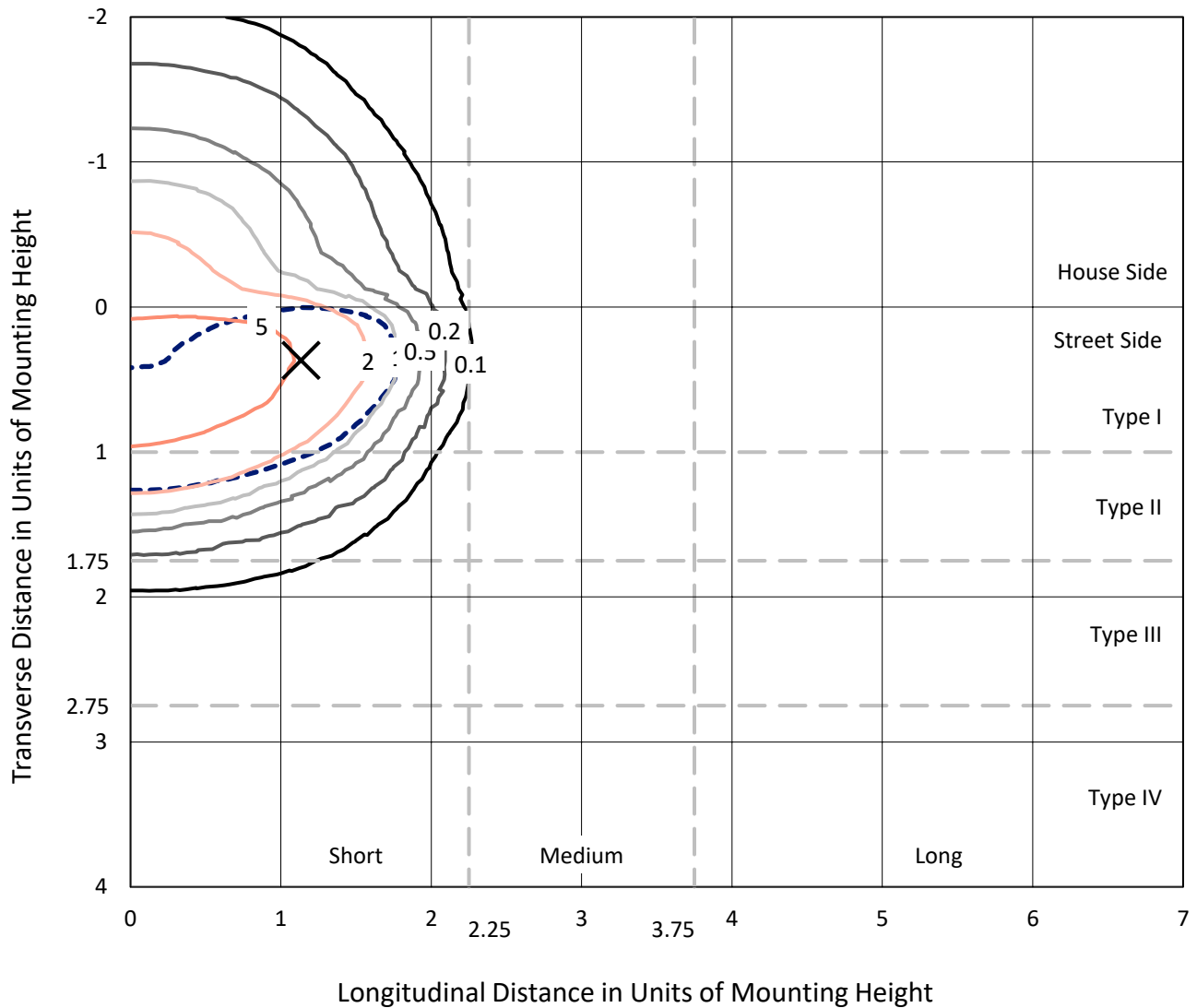
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

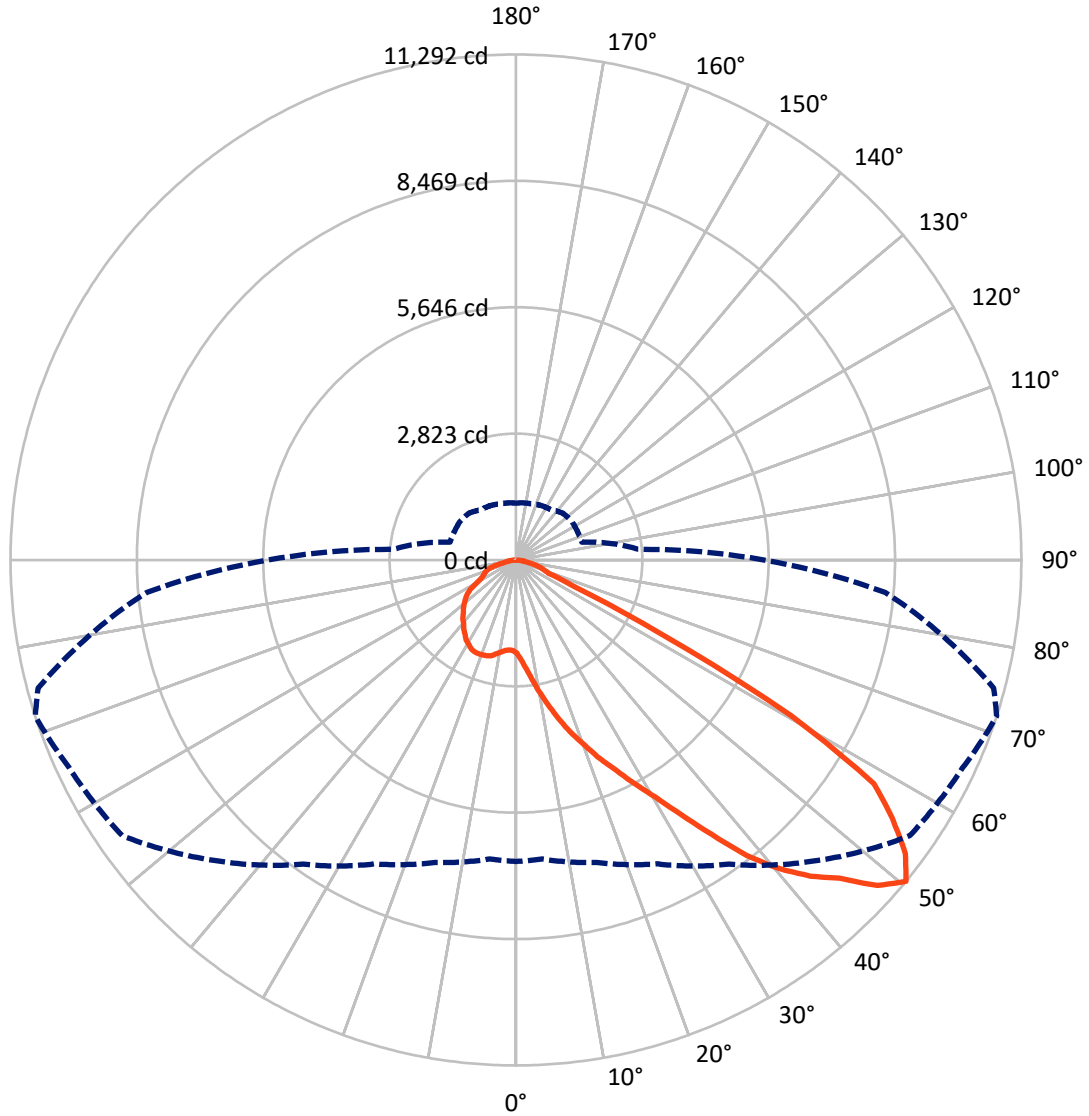
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	3417.8	0.0	3417.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	11500.2	0.0	11500.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	14918.0	0.0	14918.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.3	1.6
10°-20°	913.2	6.1
20°-30°	1770.6	11.9
30°-40°	2933.3	19.7
40°-50°	4104.3	27.5
50°-60°	3462.5	23.2
60°-70°	1055.4	7.1
70°-80°	370.3	2.5
80°-90°	64.4	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°	14918.0	100.0
0°-180°	14918.0	100.0

**Coefficient of Utilization**



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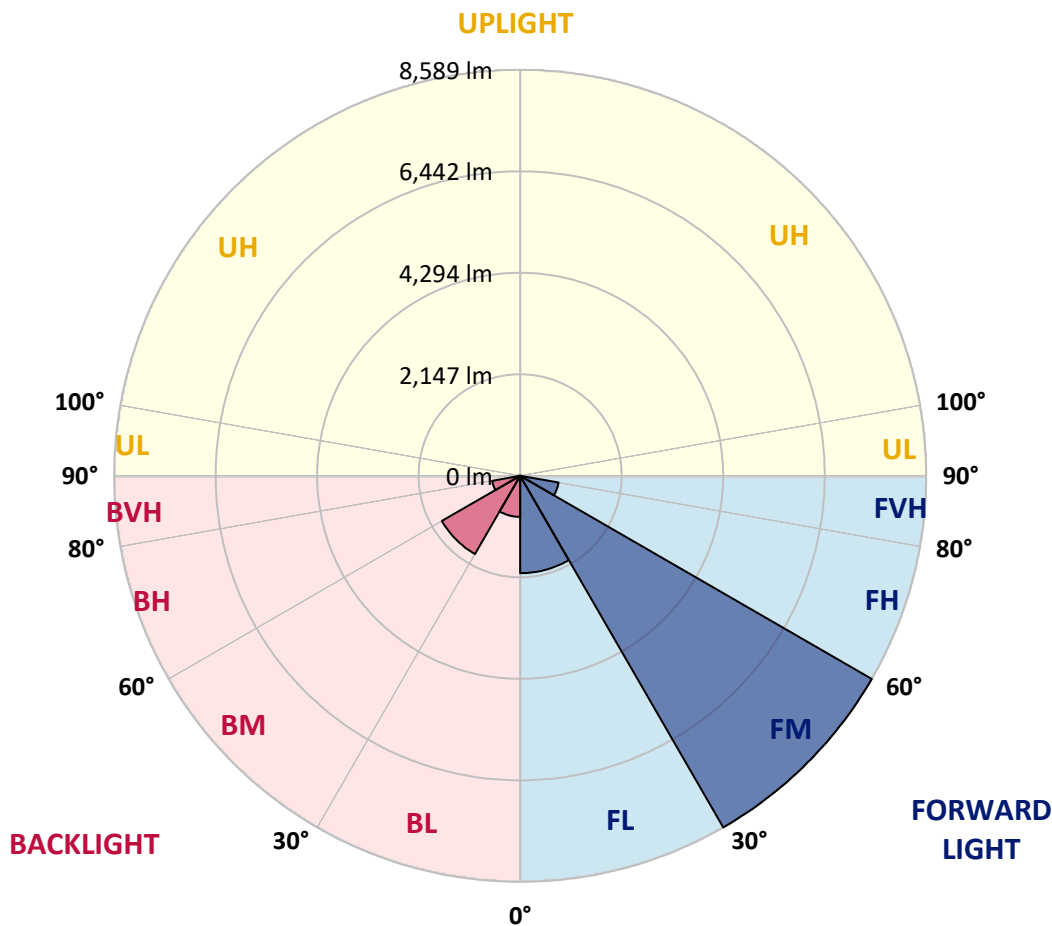
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2059.2	13.8			
FM (30°-60°)	8588.7	57.6			
FH (60°-80°)	823.4	5.5			G1/1800
FVH (80°-90°)	28.8	0.2			G1/100
BL (0°-30°)	868.8	5.8	B2/1000		
BM (30°-60°)	1911.3	12.8	B2/2500		
BH (60°-80°)	602.2	4.0	B2/1000		G2/1000
BVH (80°-90°)	35.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2076.7	2076.7	2076.7	2076.7	2076.7	2076.7	2076.7	2076.7	2076.7	2076.7	2076.7
2.5°	2671.1	2654.5	2604.7	2588.0	2529.0	2421.9	2385.0	2276.1	2229.9	2187.5	2137.6
5°	3378.1	3300.6	3295.1	3200.9	3064.3	2984.9	2748.6	2589.9	2444.1	2370.2	2233.6
7.5°	3828.5	3830.4	3830.4	3752.9	3643.9	3442.7	3230.4	2944.3	2724.6	2615.7	2383.1
10°	4256.8	4219.9	4199.6	4192.2	4118.4	3922.7	3695.6	3341.2	3040.3	2912.9	2495.7
12.5°	4559.5	4528.2	4574.3	4550.3	4496.8	4369.4	4155.3	3751.0	3374.4	3202.8	2676.7
15°	4703.5	4725.7	4762.6	4829.0	4805.1	4757.1	4520.8	4171.9	3734.4	3540.6	2837.3
17.5°	4925.0	4864.1	4908.4	4991.5	5057.9	5035.8	4901.0	4476.5	4090.7	3852.5	3053.2
20°	5080.1	5045.0	5067.2	5163.2	5213.0	5338.5	5268.4	4875.2	4432.2	4181.1	3308.0
22.5°	5523.1	5471.4	5399.5	5414.2	5432.7	5521.3	5537.9	5312.7	4829.0	4563.2	3549.8
25°	6069.5	6021.5	5936.6	5849.9	5796.3	5779.7	5836.9	5656.0	5209.3	4934.3	3810.1
27.5°	6671.3	6590.1	6536.6	6357.5	6213.5	6191.4	6163.7	6065.8	5659.7	5362.5	4103.6
30°	7256.5	7191.9	7119.9	6833.8	6684.2	6660.2	6523.6	6551.3	6148.9	5818.5	4435.9
32.5°	7699.5	7705.1	7540.8	7324.8	7184.5	7057.1	7007.3	7086.7	6776.5	6510.7	4806.9
35°	8057.6	8074.3	7917.4	7721.7	7570.3	7658.9	7636.8	7673.7	7526.0	7201.1	5238.9
37.5°	8406.5	8323.5	8155.5	8061.3	7982.0	8127.8	8316.1	8347.5	8375.2	7993.0	5741.0
40°	8463.8	8471.1	8373.3	8439.8	8340.1	8559.7	8997.2	8956.6	9069.2	8735.1	6285.5
42.5°	8382.5	8399.1	8437.9	8532.1	8772.0	9036.0	9685.8	9519.7	9656.3	9359.1	6815.3
45°	8249.6	8181.3	8229.3	8587.4	9002.8	9589.8	10315.3	10186.0	10141.7	9892.5	7446.6
47.5°	7614.6	7684.8	7834.3	8275.5	8899.4	9685.8	10762.0	10732.5	10865.4	10690.0	8020.7
50°	6734.1	6706.4	6994.4	7490.9	8295.8	9497.5	10738.0	11005.7	11291.8	11048.1	8277.3
52.5°	5043.2	5190.9	5438.2	6054.8	7203.0	8471.1	10213.7	10660.5	10893.1	10841.4	8070.6
55°	3188.0	3232.3	3381.8	4114.7	5148.4	6798.7	8755.4	9791.0	10206.4	10400.2	7880.4
57.5°	1548.8	1465.7	1648.4	2237.3	2973.9	4572.5	6752.5	8528.4	9431.0	9781.8	7466.9
60°	808.5	839.9	911.9	1122.3	1537.7	2373.9	4208.8	5683.7	7062.7	7601.7	5659.7
62.5°	670.1	681.2	729.2	834.4	1022.7	1366.0	2148.7	2770.8	3601.5	4087.0	3219.4
65°	568.6	574.1	625.8	695.9	815.9	961.7	1105.7	1157.4	1401.1	1438.0	1144.5
67.5°	474.4	480.0	535.3	601.8	679.3	718.1	755.0	751.3	779.0	767.9	766.1
70°	365.5	371.0	428.3	498.4	537.2	515.0	629.5	655.3	666.4	675.6	690.4
72.5°	264.0	275.0	319.4	369.2	348.9	400.6	518.7	557.5	572.2	577.8	596.2
75°	192.0	195.7	206.7	192.0	221.5	278.7	365.5	413.5	432.0	437.5	465.2
77.5°	84.9	86.8	88.6	110.8	142.1	173.5	217.8	256.6	282.4	289.8	297.2
80°	44.3	46.1	57.2	75.7	101.5	127.4	158.8	180.9	197.5	199.4	206.7
82.5°	27.7	29.5	40.6	53.5	72.0	94.1	116.3	134.8	147.7	149.5	151.4
85°	12.9	16.6	24.0	33.2	48.0	60.9	62.8	53.5	57.2	59.1	55.4
87.5°	3.7	5.5	7.4	5.5	7.4	7.4	9.2	11.1	11.1	11.1	12.9
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°	2076.7	2076.7	2076.7	2076.7	2076.7	2076.7	2076.7	2076.7	2076.7	2076.7	2076.7
2.5°	2109.9	2093.3	2028.7	2004.7	1942.0	1953.0	1919.8	1918.0	1910.6	1908.7	1906.9
5°	2161.6	2109.9	2032.4	1973.3	1938.3	1934.6	1910.6	1910.6	1918.0	1923.5	1910.6
7.5°	2246.5	2187.5	2056.4	2001.0	1969.6	1964.1	1947.5	1934.6	1951.2	1945.6	1930.9
10°	2344.4	2241.0	2102.6	2054.6	2002.9	1990.0	1990.0	1995.5	1967.8	1977.0	1962.3
12.5°	2453.3	2314.8	2161.6	2106.2	2045.3	2037.9	2034.3	1993.6	2008.4	2001.0	1964.1
15°	2591.7	2399.8	2237.3	2143.2	2091.5	2058.3	2010.3	2002.9	1993.6	1975.2	1958.6
17.5°	2741.3	2492.1	2272.4	2154.2	2076.7	2052.7	2015.8	1977.0	1949.3	1953.0	1940.1
20°	2868.6	2577.0	2285.3	2165.3	2065.6	2019.5	1962.3	1938.3	1908.7	1906.9	1905.0
22.5°	3020.0	2691.4	2303.8	2135.8	2032.4	1984.4	1945.6	1903.2	1882.9	1857.0	1870.0
25°	3200.9	2735.7	2307.5	2119.2	2008.4	1923.5	1903.2	1857.0	1849.7	1812.7	1820.1
27.5°	3332.0	2759.7	2277.9	2067.5	1953.0	1888.4	1851.5	1818.3	1805.4	1777.7	1770.3
30°	3507.3	2796.6	2215.2	2002.9	1897.7	1825.7	1803.5	1796.1	1759.2	1729.7	1726.0
32.5°	3706.7	2820.6	2174.5	1936.4	1840.4	1785.1	1796.1	1761.1	1714.9	1689.1	1681.7
35°	3865.5	2829.9	2073.0	1860.7	1801.7	1766.6	1753.7	1746.3	1679.8	1655.8	1637.4
37.5°	4107.3	2809.6	1988.1	1807.2	1759.2	1746.3	1735.2	1685.4	1609.7	1574.6	1548.8
40°	4389.7	2804.0	1879.2	1731.5	1718.6	1733.4	1700.1	1622.6	1517.4	1478.6	1460.2
42.5°	4661.1	2842.8	1810.9	1690.9	1674.3	1679.8	1633.7	1517.4	1465.7	1443.5	1414.0
45°	5115.2	2924.0	1698.3	1628.1	1620.8	1617.1	1561.7	1439.9	1410.3	1382.6	1377.1
47.5°	5525.0	2870.5	1626.3	1563.5	1570.9	1550.6	1432.5	1393.7	1360.5	1332.8	1323.6
50°	5549.0	2743.1	1524.8	1513.7	1515.5	1480.5	1367.9	1342.0	1299.6	1281.1	1268.2
52.5°	5423.5	2534.5	1430.6	1434.3	1439.9	1382.6	1288.5	1270.0	1235.0	1209.1	1201.7
55°	5070.9	2209.6	1338.3	1353.1	1367.9	1258.9	1229.4	1183.3	1155.6	1118.7	1120.5
57.5°	4467.2	1779.5	1209.1	1233.1	1264.5	1144.5	1122.3	1065.1	1024.5	995.0	991.3
60°	2994.2	1266.3	1015.3	1024.5	1094.7	1046.7	1044.8	987.6	932.2	906.4	891.6
62.5°	1766.6	967.3	876.8	867.6	865.8	893.4	939.6	919.3	847.3	797.5	812.2
65°	924.8	836.2	815.9	784.5	766.1	758.7	793.8	803.0	755.0	701.5	697.8
67.5°	777.2	777.2	760.5	749.5	723.6	692.2	670.1	640.6	633.2	618.4	599.9
70°	707.0	725.5	719.9	694.1	671.9	636.9	579.6	531.6	485.5	468.9	480.0
72.5°	616.6	635.0	635.0	622.1	592.6	539.0	483.6	428.3	389.5	360.0	356.3
75°	474.4	483.6	505.8	491.0	452.3	419.0	361.8	304.6	267.7	240.0	234.4
77.5°	302.7	317.5	317.5	315.7	288.0	256.6	219.7	179.1	151.4	131.1	125.5
80°	201.2	210.4	217.8	210.4	192.0	168.0	140.3	112.6	92.3	75.7	72.0
82.5°	147.7	158.8	164.3	156.9	138.4	120.0	99.7	79.4	59.1	46.1	42.5
85°	57.2	59.1	66.5	79.4	77.5	75.7	60.9	44.3	33.2	24.0	22.2
87.5°	14.8	12.9	14.8	14.8	12.9	11.1	11.1	11.1	11.1	5.5	7.4
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)