

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: P527933

Luminaire Tested: **GALN-SA3A-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-727-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6943 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

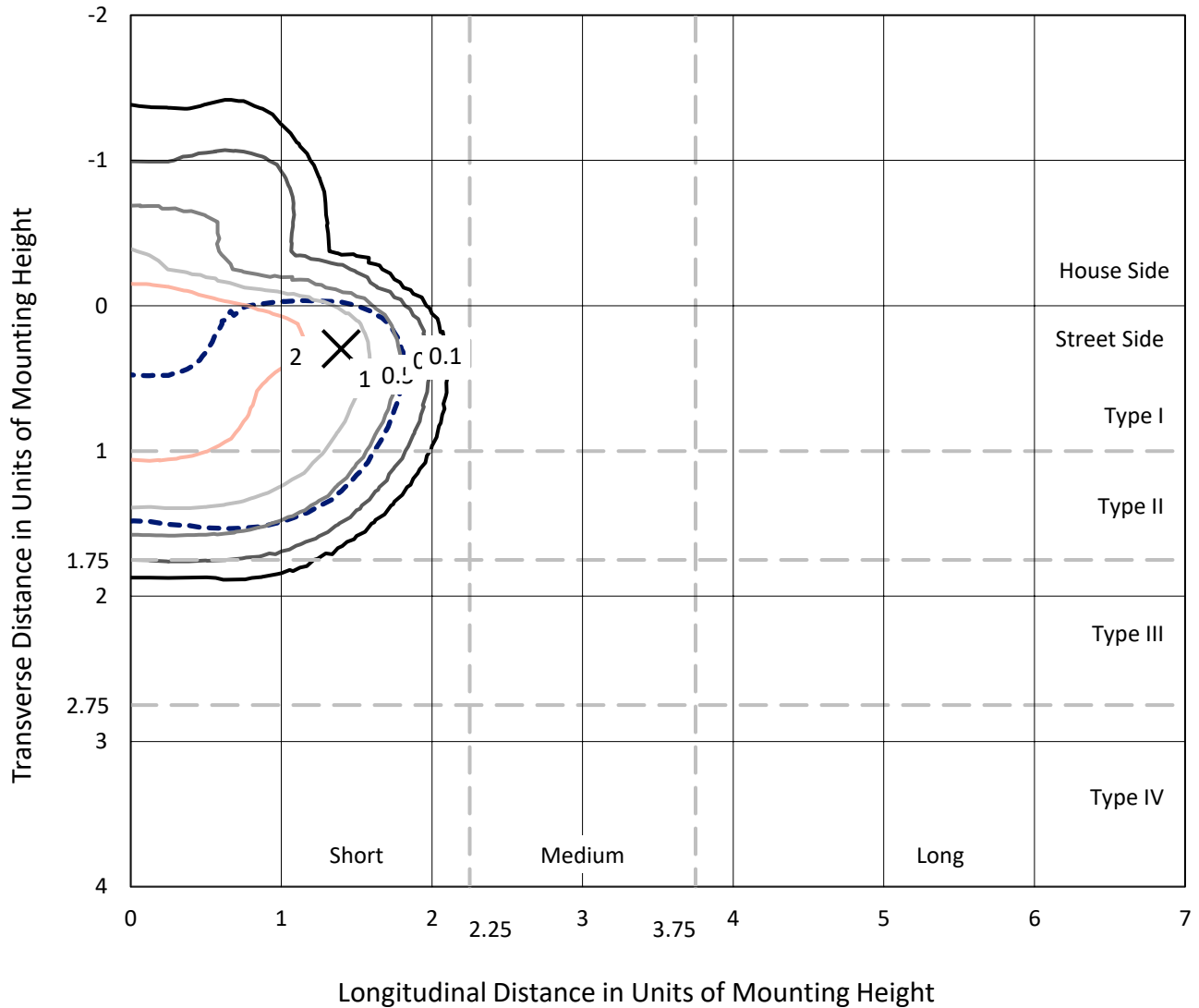
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

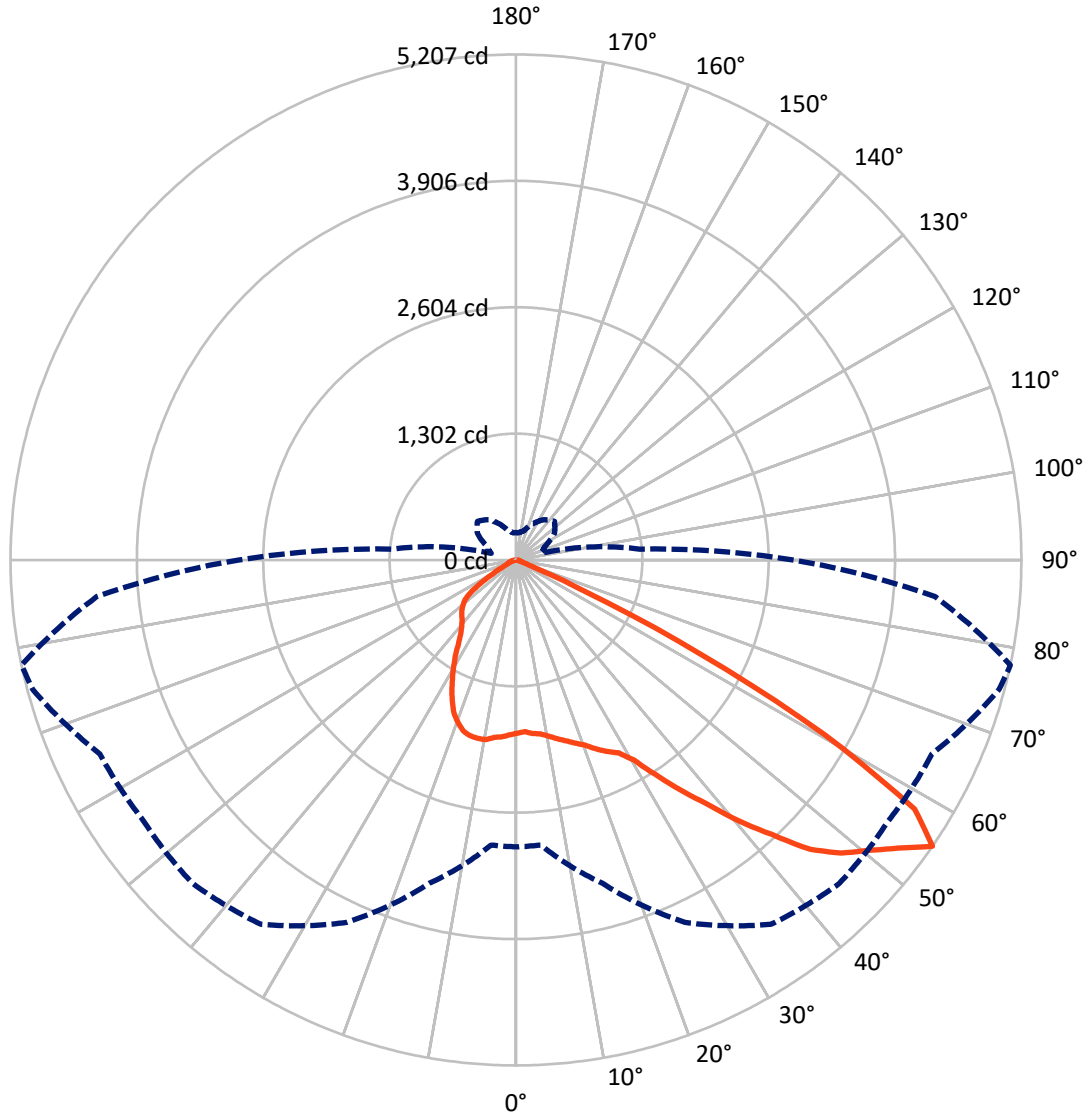
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1289.6	0.0	1289.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	5653.4	0.0	5653.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	6943.0	0.0	6943.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.2	2.3
10°-20°	421.2	6.1
20°-30°	738.4	10.6
30°-40°	1217.5	17.5
40°-50°	1771.6	25.5
50°-60°	2007.4	28.9
60°-70°	573.9	8.3
70°-80°	44.6	0.6
80°-90°	9.3	0.1
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°	6943.0	100.0
0°-180°	6943.0	100.0

**Coefficient of Utilization**



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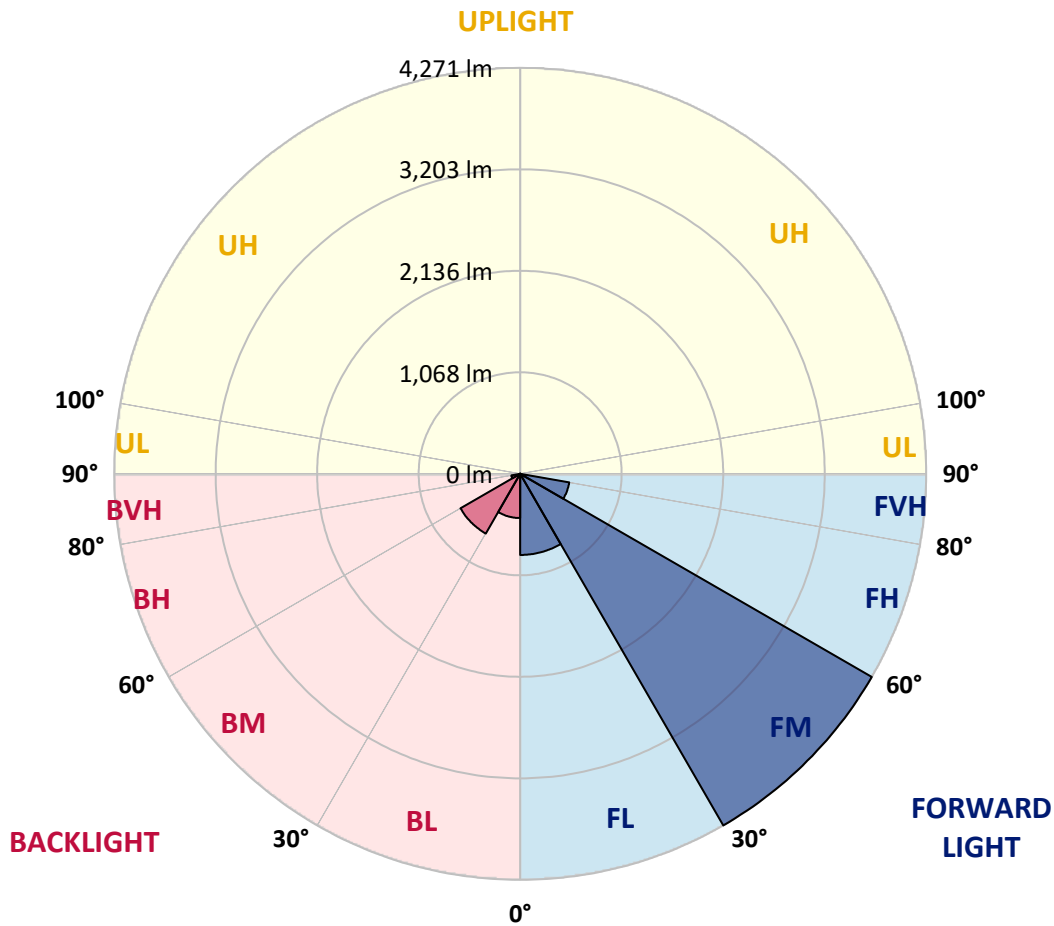
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.5	12.3			
FM (30°-60°)	4271.0	61.5			
FH (60°-80°)	524.4	7.6			G0/660
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	465.3	6.7	B1/500		
BM (30°-60°)	725.4	10.4	B1/1000		
BH (60°-80°)	94.1	1.4	B0/110		G0/110
BVH (80°-90°)	4.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1785.0	1785.0	1785.0	1785.0	1785.0	1785.0	1785.0	1785.0	1785.0	1785.0	1785.0
2.5°	1678.3	1694.4	1696.9	1716.8	1715.5	1749.1	1759.0	1760.2	1782.6	1771.4	1799.9
5°	1631.1	1622.4	1618.7	1653.5	1663.4	1693.2	1718.0	1732.9	1778.8	1795.0	1824.8
7.5°	1588.9	1588.9	1591.4	1622.4	1618.7	1657.2	1683.3	1729.2	1796.2	1809.9	1845.9
10°	1548.0	1533.1	1551.7	1584.0	1611.3	1628.6	1683.3	1726.7	1804.9	1844.6	1894.3
12.5°	1526.9	1534.3	1536.8	1560.4	1590.2	1642.3	1672.1	1744.1	1867.0	1890.6	1943.9
15°	1659.7	1644.8	1608.8	1587.7	1612.5	1637.3	1711.8	1785.0	1899.3	1932.8	1992.4
17.5°	1813.6	1801.2	1771.4	1714.3	1658.4	1704.4	1762.7	1829.7	1934.0	1983.7	2071.8
20°	2014.7	1994.8	1965.0	1853.3	1804.9	1755.3	1817.3	1896.8	1991.1	2035.8	2126.4
22.5°	2254.3	2254.3	2187.2	2051.9	1951.4	1904.2	1930.3	1976.2	2054.4	2115.2	2204.6
25°	2503.8	2496.3	2435.5	2295.2	2125.2	2069.3	2099.1	2131.4	2152.5	2186.0	2245.6
27.5°	2789.3	2745.8	2668.9	2513.7	2363.5	2255.5	2287.8	2259.2	2233.2	2250.6	2336.2
30°	2982.9	3010.3	2912.2	2763.2	2621.7	2501.3	2507.5	2482.7	2363.5	2388.3	2439.2
32.5°	3184.0	3201.4	3146.8	3064.9	2923.4	2783.1	2732.2	2711.1	2621.7	2632.9	2583.2
35°	3351.6	3385.1	3336.7	3300.7	3259.8	3146.8	3006.5	3074.8	2930.8	2903.5	2774.4
37.5°	3505.5	3495.6	3552.7	3515.5	3506.8	3427.3	3273.4	3287.1	3190.2	3184.0	3035.1
40°	3643.3	3645.8	3724.0	3741.4	3706.6	3565.1	3341.7	3449.7	3527.9	3535.3	3344.2
42.5°	3757.5	3791.1	3858.1	3998.4	3946.2	3710.4	3412.4	3530.4	3820.8	3866.8	3637.1
45°	3856.8	3925.1	4008.3	4133.7	4103.9	3916.4	3588.7	3696.7	4133.7	4254.1	3912.7
47.5°	3863.1	3952.4	4043.0	4229.3	4266.5	4026.9	3771.2	3959.9	4381.9	4512.3	4113.8
50°	3838.2	3885.4	4066.6	4269.0	4353.4	4206.9	4026.9	4180.8	4622.8	4704.7	4215.6
52.5°	3544.0	3580.0	3943.7	4306.2	4509.8	4410.5	4365.8	4488.7	4868.5	4929.4	4311.2
55°	2954.4	2948.2	3448.4	4118.8	4581.8	4712.1	4684.8	4728.3	5152.8	5207.4	4334.8
57.5°	2020.9	2133.9	2565.9	3429.8	4141.1	4641.4	4669.9	4597.9	4821.4	4842.5	3778.6
60°	1089.9	1137.1	1484.6	2289.0	3153.0	3782.4	3856.8	3726.5	3709.1	3649.5	2697.4
62.5°	433.2	456.8	654.2	1133.3	1718.0	2299.0	2459.1	2405.7	2291.5	2135.1	1396.5
65°	206.1	221.0	325.2	530.1	762.2	958.3	1118.4	1168.1	861.5	775.8	460.5
67.5°	140.3	151.4	237.1	302.9	271.9	284.3	369.9	343.9	202.3	172.5	127.9
70°	106.8	114.2	189.9	206.1	121.7	85.7	95.6	89.4	83.2	84.4	83.2
72.5°	75.7	81.9	139.0	121.7	53.4	39.7	50.9	60.8	60.8	60.8	59.6
75°	45.9	52.1	80.7	47.2	21.1	21.1	32.3	41.0	43.4	44.7	42.2
77.5°	23.6	29.8	27.3	13.7	13.7	16.1	23.6	28.6	31.0	31.0	29.8
80°	5.0	5.0	5.0	7.4	13.7	17.4	23.6	26.1	29.8	29.8	27.3
82.5°	0.0	1.2	3.7	7.4	12.4	16.1	22.3	26.1	29.8	31.0	28.6
85°	0.0	1.2	2.5	5.0	8.7	9.9	8.7	7.4	7.4	7.4	7.4
87.5°	0.0	0.0	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5
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°	1785.0	1785.0	1785.0	1785.0	1785.0	1785.0	1785.0	1785.0	1785.0	1785.0	1785.0
2.5°	1802.4	1806.2	1799.9	1798.7	1793.7	1808.6	1772.6	1763.9	1786.3	1765.2	1770.2
5°	1826.0	1834.7	1823.5	1804.9	1777.6	1735.4	1699.4	1652.2	1629.9	1613.7	1611.3
7.5°	1843.4	1849.6	1838.4	1778.8	1696.9	1590.2	1510.7	1452.4	1406.4	1392.8	1370.4
10°	1914.1	1915.4	1859.5	1727.9	1567.8	1427.5	1305.9	1216.5	1170.6	1142.0	1129.6
12.5°	1961.3	1958.8	1845.9	1627.4	1413.9	1227.7	1088.7	980.7	938.5	924.8	916.1
15°	2020.9	2007.2	1813.6	1524.4	1215.3	1014.2	888.8	814.3	810.6	801.9	810.6
17.5°	2068.1	2029.6	1766.4	1336.9	1025.3	835.4	753.5	758.5	768.4	777.1	778.3
20°	2145.0	2065.6	1658.4	1173.1	849.1	716.3	715.0	737.4	762.2	772.1	782.0
22.5°	2203.4	2080.5	1543.0	998.0	705.1	667.8	688.9	722.5	741.1	751.0	765.9
25°	2224.5	2039.5	1389.1	823.0	635.6	645.5	677.8	700.1	723.7	734.9	728.7
27.5°	2245.6	2018.4	1205.3	677.8	598.3	630.6	657.9	680.3	687.7	702.6	712.5
30°	2296.5	1945.2	1040.2	585.9	579.7	620.7	640.5	648.0	667.8	676.5	676.5
32.5°	2337.4	1916.6	865.2	542.5	577.2	625.6	628.1	628.1	630.6	624.4	621.9
35°	2421.9	1818.6	708.8	516.4	576.0	626.9	633.1	612.0	554.9	532.5	526.3
37.5°	2526.1	1755.3	593.4	510.2	584.7	641.8	651.7	572.3	497.8	461.8	455.6
40°	2652.7	1710.6	517.6	507.7	604.5	676.5	646.7	541.2	444.4	392.3	389.8
42.5°	2800.5	1669.6	466.7	506.5	629.4	712.5	641.8	515.2	389.8	355.0	360.0
45°	2918.4	1647.3	432.0	497.8	638.0	733.6	645.5	469.2	367.4	345.1	347.6
47.5°	3010.3	1600.1	403.4	482.9	636.8	741.1	612.0	450.6	356.3	362.5	368.7
50°	3012.7	1536.8	367.4	450.6	618.2	727.4	573.5	433.2	353.8	379.9	392.3
52.5°	2979.2	1447.4	329.0	404.7	574.7	680.3	538.7	425.8	342.6	340.1	355.0
55°	2860.1	1279.8	264.4	327.7	485.4	561.1	507.7	412.1	309.1	280.5	283.0
57.5°	2311.4	917.4	194.9	234.6	343.9	410.9	458.1	405.9	278.1	238.3	239.6
60°	1431.3	520.1	142.8	160.1	212.3	249.5	371.2	377.4	248.3	201.1	198.6
62.5°	734.9	257.0	110.5	113.0	130.3	146.5	254.5	316.5	224.7	191.2	191.2
65°	245.8	126.6	96.8	86.9	86.9	90.6	153.9	219.7	189.9	160.1	160.1
67.5°	105.5	94.3	84.4	75.7	69.5	65.8	86.9	127.9	141.5	121.7	116.7
70°	81.9	79.4	73.2	63.3	54.6	49.7	50.9	65.8	80.7	78.2	75.7
72.5°	60.8	60.8	58.3	49.7	42.2	36.0	33.5	34.8	38.5	39.7	41.0
75°	42.2	43.4	43.4	38.5	31.0	26.1	22.3	18.6	14.9	12.4	11.2
77.5°	28.6	29.8	32.3	28.6	23.6	17.4	13.7	9.9	6.2	2.5	2.5
80°	24.8	28.6	31.0	28.6	24.8	18.6	13.7	7.4	3.7	0.0	0.0
82.5°	26.1	28.6	32.3	27.3	23.6	17.4	13.7	8.7	3.7	1.2	0.0
85°	6.2	6.2	7.4	8.7	11.2	12.4	9.9	6.2	3.7	1.2	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	0.0	0.0
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)