

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: P527136

Luminaire Tested: **GALN-SA2A-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527136  
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-SA2A-827-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA 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: 6101 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

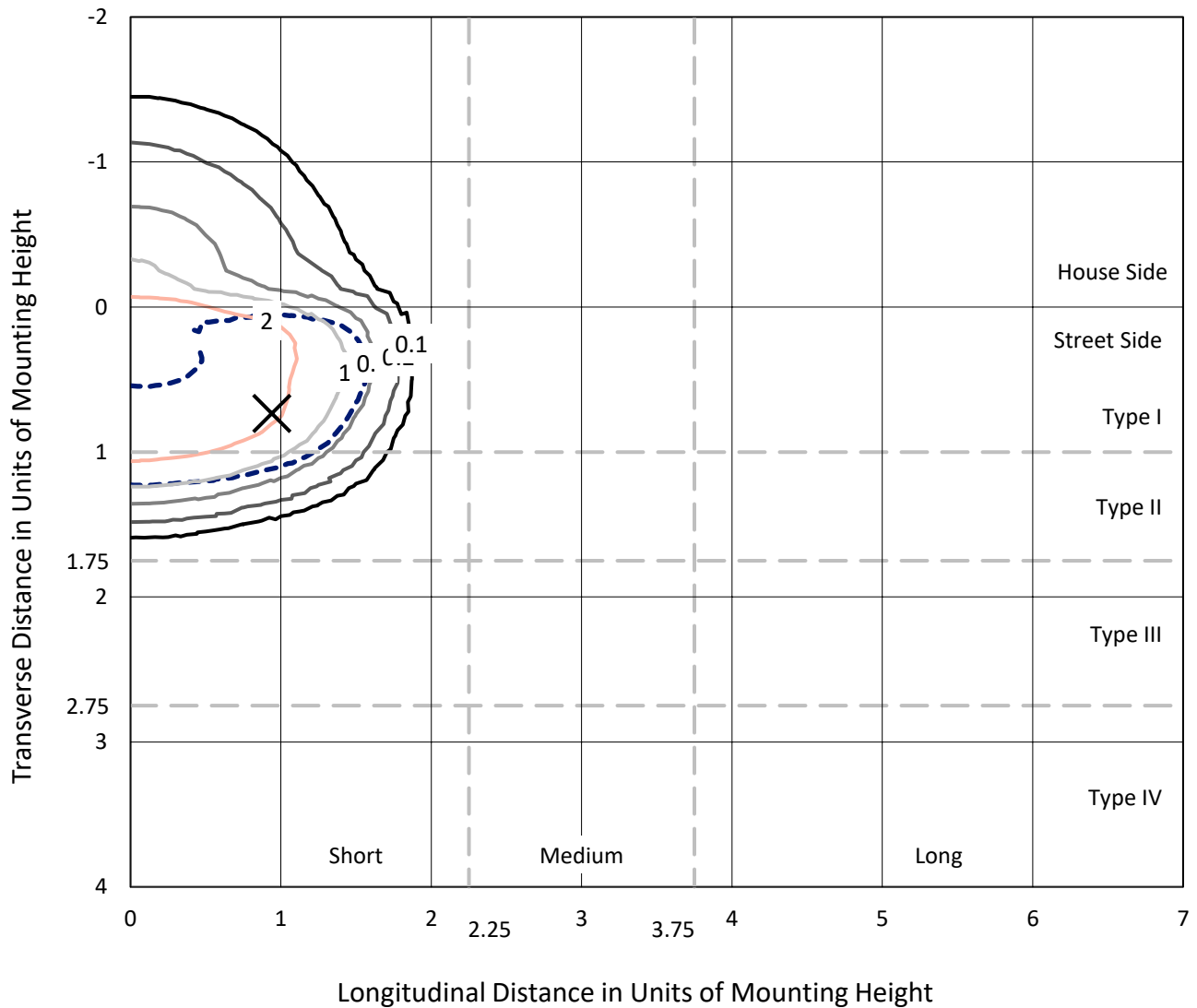
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

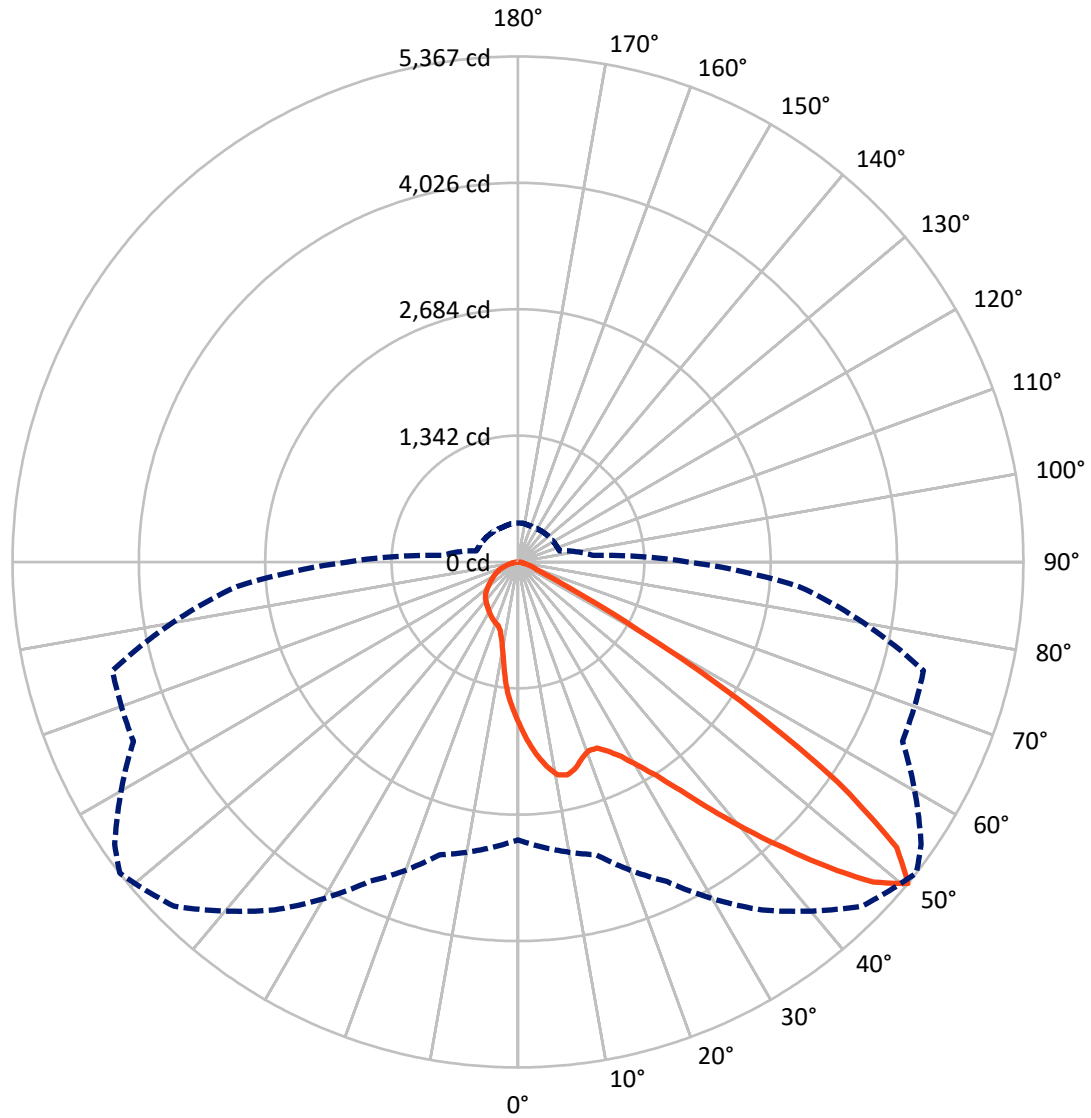
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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
<b>House Side</b>	Lumens	1146.8	0.0	1146.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	4954.2	0.0	4954.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	6101.0	0.0	6101.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.5	2.6
10°-20°	424.8	7.0
20°-30°	715.6	11.7
30°-40°	1200.9	19.7
40°-50°	1837.1	30.1
50°-60°	1339.4	22.0
60°-70°	298.1	4.9
70°-80°	107.5	1.8
80°-90°	19.0	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°	6101.0	100.0
0°-180°	6101.0	100.0

**Coefficient of Utilization**



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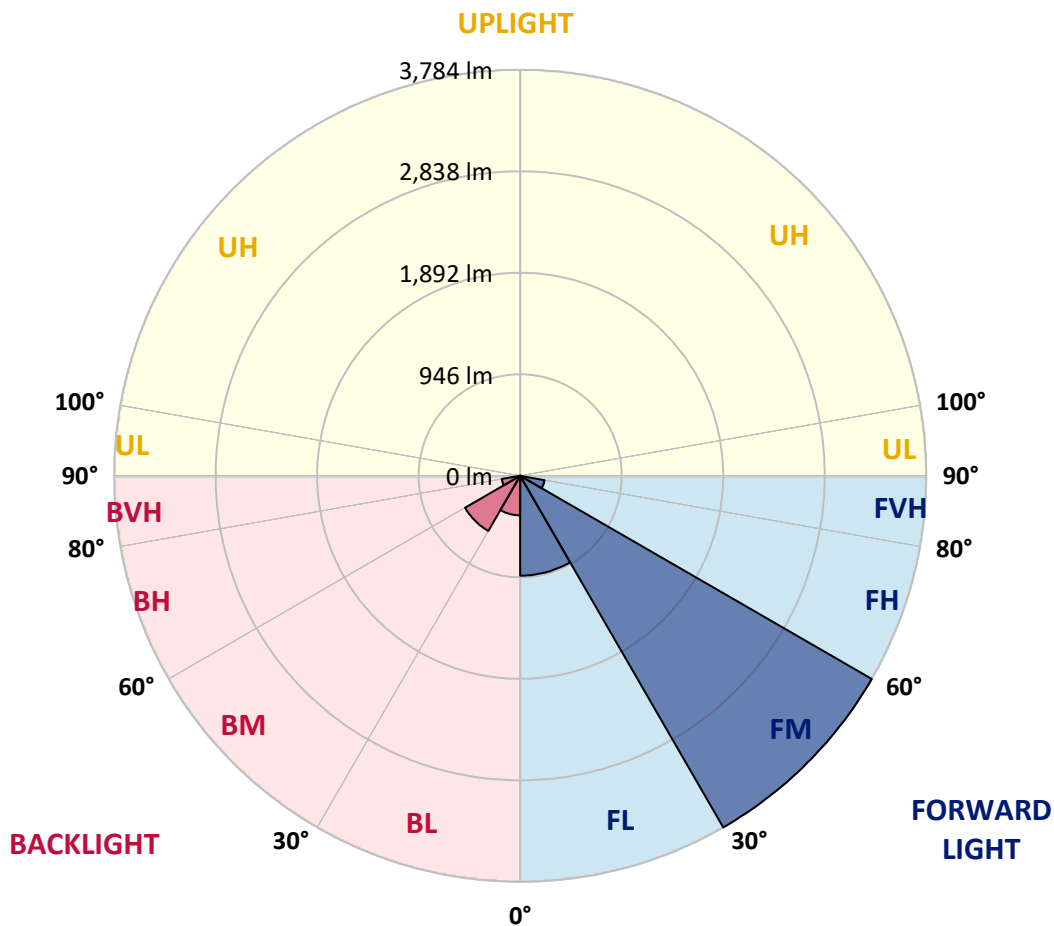
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	930.6	15.3			
FM (30°-60°)	3784.2	62.0			
FH (60°-80°)	230.9	3.8			G0/660
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	368.4	6.0	B1/500		
BM (30°-60°)	593.2	9.7	B1/1000		
BH (60°-80°)	174.7	2.9	B1/500		G1/500
BVH (80°-90°)	10.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8
2.5°	2024.9	1985.9	1990.3	1962.4	1932.3	1923.4	1892.6	1863.1	1841.1	1794.0	1750.7
5°	2213.1	2201.4	2183.7	2161.7	2138.9	2083.0	2051.4	2014.6	1933.7	1860.9	1788.9
7.5°	2240.3	2238.1	2247.7	2247.7	2255.8	2234.5	2189.6	2163.9	2077.8	1959.5	1825.6
10°	2049.2	2055.8	2102.1	2162.4	2246.2	2304.3	2296.9	2290.3	2196.2	2034.5	1869.0
12.5°	1897.0	1882.3	1909.5	1960.9	2086.7	2227.1	2321.9	2322.7	2298.4	2154.3	1900.6
15°	1810.9	1821.2	1828.6	1852.9	1947.7	2110.2	2277.1	2326.4	2433.0	2238.9	1950.6
17.5°	1866.1	1831.5	1830.1	1835.9	1884.5	2006.5	2194.0	2278.6	2506.5	2347.7	2012.4
20°	1938.1	1937.4	1916.8	1909.5	1908.7	2017.6	2139.6	2254.3	2545.5	2488.9	2074.9
22.5°	2064.6	2064.6	2030.8	2014.6	1980.1	2069.0	2147.0	2224.9	2610.2	2585.9	2105.0
25°	2276.4	2241.8	2183.7	2144.0	2124.2	2155.8	2224.9	2294.7	2666.8	2688.8	2167.5
27.5°	2471.9	2417.5	2388.9	2320.5	2294.0	2275.6	2338.9	2409.4	2733.0	2849.1	2201.4
30°	2694.0	2684.4	2633.0	2544.7	2479.3	2445.5	2503.6	2573.4	2854.3	3013.1	2279.3
32.5°	3091.0	3004.3	2934.4	2826.3	2719.7	2647.7	2705.0	2751.3	3055.7	3184.4	2364.6
35°	3519.7	3491.7	3371.2	3176.3	3013.1	2948.4	2982.2	3016.8	3290.3	3446.2	2508.0
37.5°	3941.0	3902.8	3803.5	3639.5	3441.0	3309.4	3333.7	3374.1	3553.5	3799.1	2683.0
40°	4243.9	4196.9	4146.9	4122.6	3925.5	3745.4	3731.4	3741.7	3909.4	4129.9	2877.1
42.5°	4266.0	4324.1	4339.5	4437.3	4391.0	4243.2	4157.2	4159.4	4249.1	4457.1	3073.4
45°	4219.7	4166.0	4279.9	4546.8	4699.8	4768.9	4624.0	4605.7	4459.3	4646.8	3171.2
47.5°	3733.6	3748.4	3941.0	4363.0	4804.9	5113.7	5079.9	5018.9	4571.8	4640.2	3155.7
50°	2951.3	3040.3	3219.0	3744.7	4510.8	5168.1	5367.4	5226.2	4504.9	4457.9	2998.4
52.5°	1965.3	2002.1	2119.8	2798.4	3627.0	4619.6	5036.5	5068.9	4443.2	4218.9	2799.1
55°	875.0	872.0	1037.5	1461.7	2275.6	3515.3	4115.2	4312.3	4205.7	3975.5	2605.0
57.5°	370.6	383.1	450.7	631.6	1119.1	2121.2	2788.1	2960.9	3234.4	3264.5	1998.4
60°	250.7	252.2	270.6	316.2	468.4	996.3	1462.4	1669.8	1865.4	1852.1	1060.2
62.5°	197.0	202.2	216.2	234.5	277.9	452.2	654.4	769.8	782.3	658.1	402.2
65°	168.4	169.1	183.1	198.5	217.6	263.2	315.4	321.3	325.0	313.2	295.6
67.5°	139.0	140.4	151.5	169.1	186.8	201.5	216.2	223.5	240.4	273.5	269.1
70°	110.3	112.5	122.1	136.8	152.9	161.8	180.1	186.8	202.2	227.9	238.2
72.5°	83.8	84.6	92.6	102.9	117.6	126.5	141.9	149.3	159.6	181.6	191.2
75°	60.3	62.5	68.4	73.5	75.7	81.6	96.3	104.4	119.1	128.7	129.4
77.5°	31.6	33.1	34.6	34.6	41.9	52.9	62.5	66.9	77.2	84.6	80.9
80°	12.5	13.2	16.9	22.8	29.4	38.2	44.9	47.1	55.9	60.3	62.5
82.5°	7.4	8.1	11.0	16.2	21.3	27.2	32.4	34.6	40.4	45.6	47.1
85°	3.7	4.4	6.6	10.3	14.0	16.9	16.2	15.4	15.4	14.7	15.4
87.5°	1.5	1.5	2.2	2.2	2.2	2.9	3.7	3.7	3.7	4.4	4.4
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°	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8
2.5°	1722.0	1692.6	1665.4	1615.4	1561.0	1545.5	1482.3	1459.5	1443.3	1424.2	1418.3
5°	1730.8	1691.8	1604.3	1503.6	1423.5	1320.5	1252.9	1180.1	1127.2	1113.9	1110.2
7.5°	1749.2	1682.3	1531.5	1379.3	1215.4	1075.7	969.1	911.7	861.0	858.0	852.9
10°	1769.8	1653.6	1452.1	1213.2	1003.6	874.2	810.3	785.3	772.8	769.8	768.3
12.5°	1786.7	1647.7	1363.2	1051.4	853.6	775.7	756.6	754.4	759.5	761.0	763.9
15°	1794.0	1624.2	1255.8	906.6	760.3	731.6	739.7	748.5	752.2	761.7	754.4
17.5°	1808.0	1594.0	1123.5	791.9	708.1	713.2	727.2	737.5	743.3	750.0	740.4
20°	1815.4	1566.8	999.2	723.5	689.7	699.2	718.3	726.4	733.8	736.7	725.7
22.5°	1808.7	1511.0	889.7	668.4	672.0	684.5	701.4	710.3	705.8	694.1	687.5
25°	1791.1	1432.3	775.7	633.1	647.0	669.1	682.3	675.7	667.6	661.0	658.8
27.5°	1790.4	1336.0	693.3	600.7	625.7	655.9	651.4	645.6	649.2	644.1	638.2
30°	1794.0	1242.6	625.7	582.3	610.3	625.0	630.1	624.2	628.6	619.1	622.0
32.5°	1774.9	1151.4	581.6	561.0	591.9	591.1	608.1	612.5	602.2	582.3	585.3
35°	1783.0	1077.9	544.1	551.4	571.3	571.3	584.5	579.4	552.2	540.4	543.4
37.5°	1838.9	1005.8	525.7	538.2	551.4	557.3	552.9	530.9	524.2	524.2	525.7
40°	1891.8	944.1	514.7	535.3	533.1	536.7	504.4	506.6	506.6	507.3	503.7
42.5°	1938.9	902.2	505.9	517.6	521.3	502.2	482.3	480.1	485.3	484.5	481.6
45°	1955.8	867.6	493.4	497.8	500.7	469.1	459.5	455.1	461.0	463.2	466.2
47.5°	1891.1	838.9	479.4	470.6	464.7	444.1	431.6	423.5	430.9	443.4	446.3
50°	1808.0	801.4	457.3	440.4	427.9	419.1	410.3	402.2	407.3	416.2	414.0
52.5°	1685.2	742.6	429.4	411.7	390.4	392.6	384.5	380.1	383.1	383.1	380.9
55°	1510.2	610.3	382.3	369.8	352.2	358.1	359.5	353.7	347.8	352.9	348.5
57.5°	1030.8	430.9	341.2	341.2	323.5	331.6	330.9	316.9	302.9	304.4	301.5
60°	596.3	343.4	314.7	311.7	293.4	300.0	301.5	291.9	270.6	272.0	269.1
62.5°	339.0	293.4	275.0	270.6	266.9	272.8	272.8	260.3	241.9	243.4	240.4
65°	288.2	272.0	245.6	244.8	243.4	244.8	239.0	225.7	209.5	202.9	203.7
67.5°	261.8	251.5	225.7	219.1	214.7	214.0	202.9	190.4	183.1	177.2	176.5
70°	229.4	221.3	202.2	193.4	189.0	178.7	167.6	159.6	149.3	146.3	149.3
72.5°	181.6	180.9	173.5	164.0	154.4	146.3	136.8	125.7	116.2	114.0	108.8
75°	125.7	127.2	128.7	127.2	119.1	108.8	97.8	89.0	77.2	70.6	69.1
77.5°	82.3	84.6	86.8	83.8	78.7	69.1	61.8	50.7	41.9	36.8	36.0
80°	60.3	63.2	64.7	62.5	56.6	49.3	41.2	32.4	25.7	21.3	21.3
82.5°	46.3	49.3	50.7	47.1	41.2	35.3	29.4	22.8	17.6	14.0	13.2
85°	16.2	15.4	18.4	19.1	22.8	21.3	17.6	13.2	10.3	7.4	6.6
87.5°	4.4	4.4	5.1	5.1	4.4	3.7	3.7	3.7	2.9	2.2	2.2
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)