

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: P527050

Luminaire Tested: **GALN-SA2A-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-735-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7479 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

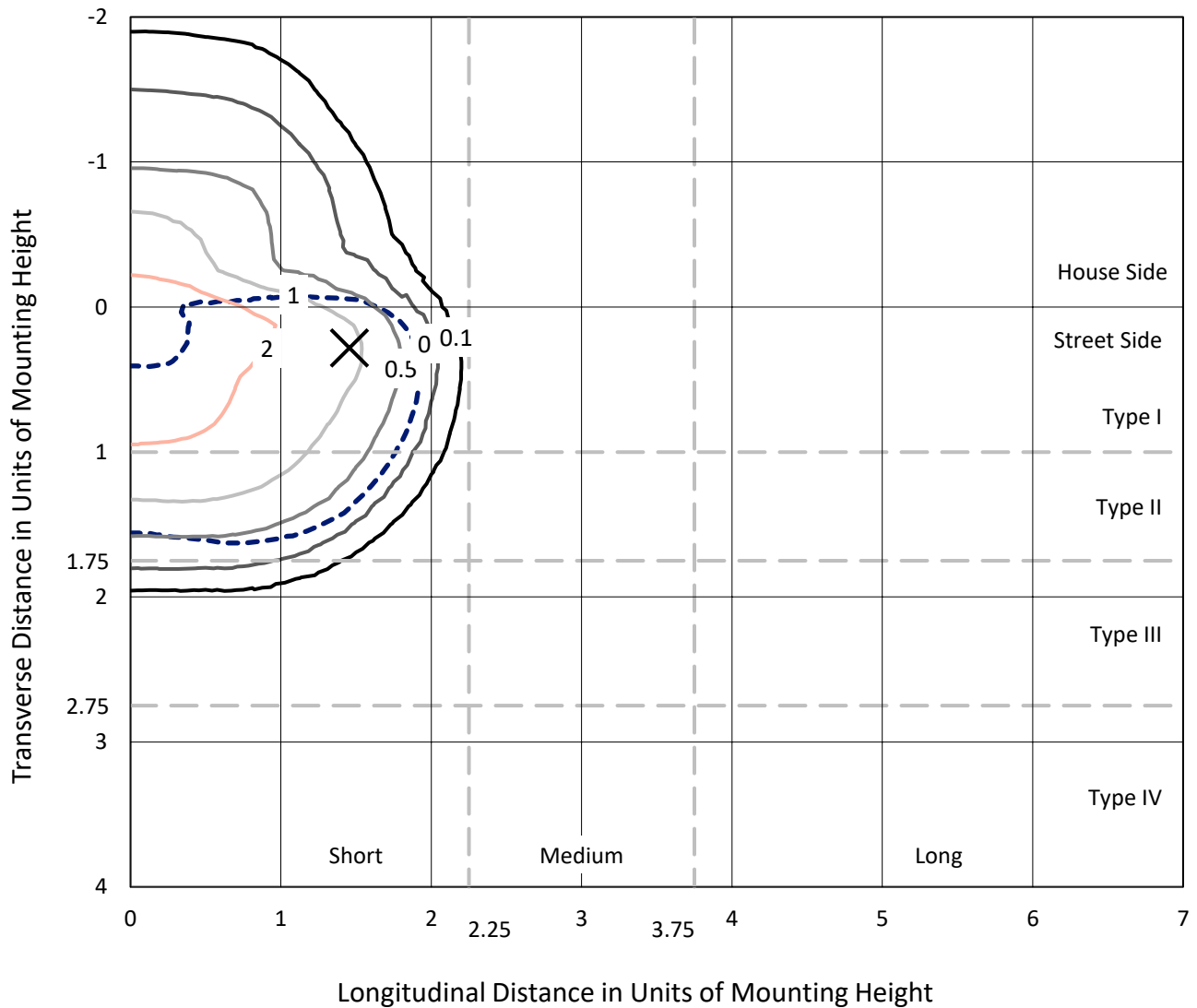
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

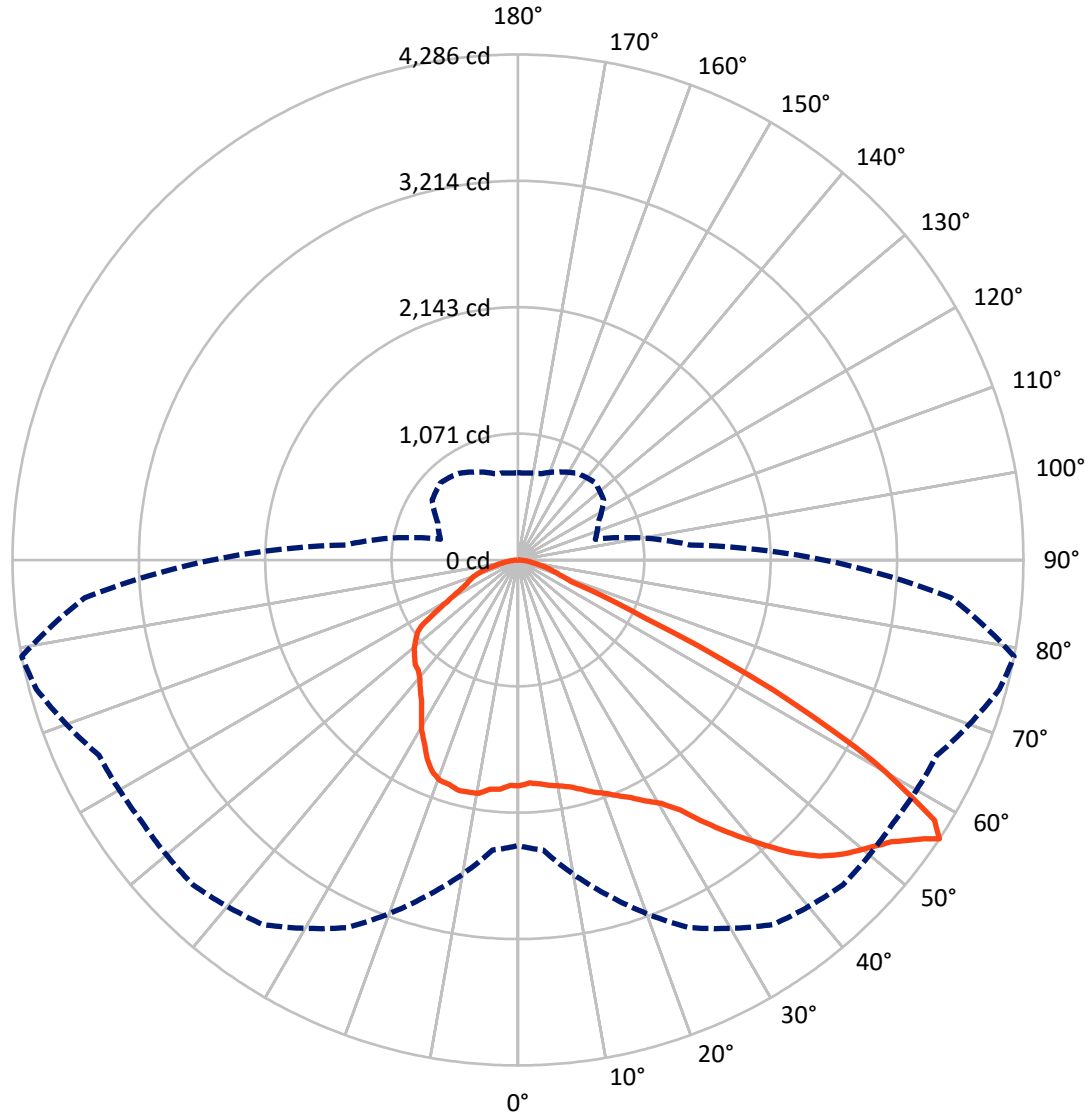
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2208.7	0.0	2208.7
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	5270.3	0.0	5270.3
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	7479.0	0.0	7479.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.0	2.3
10°-20°	476.1	6.4
20°-30°	814.6	10.9
30°-40°	1248.4	16.7
40°-50°	1687.3	22.6
50°-60°	1937.9	25.9
60°-70°	883.3	11.8
70°-80°	217.8	2.9
80°-90°	39.6	0.5
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°	7479.0	100.0
0°-180°	7479.0	100.0

**Coefficient of Utilization**

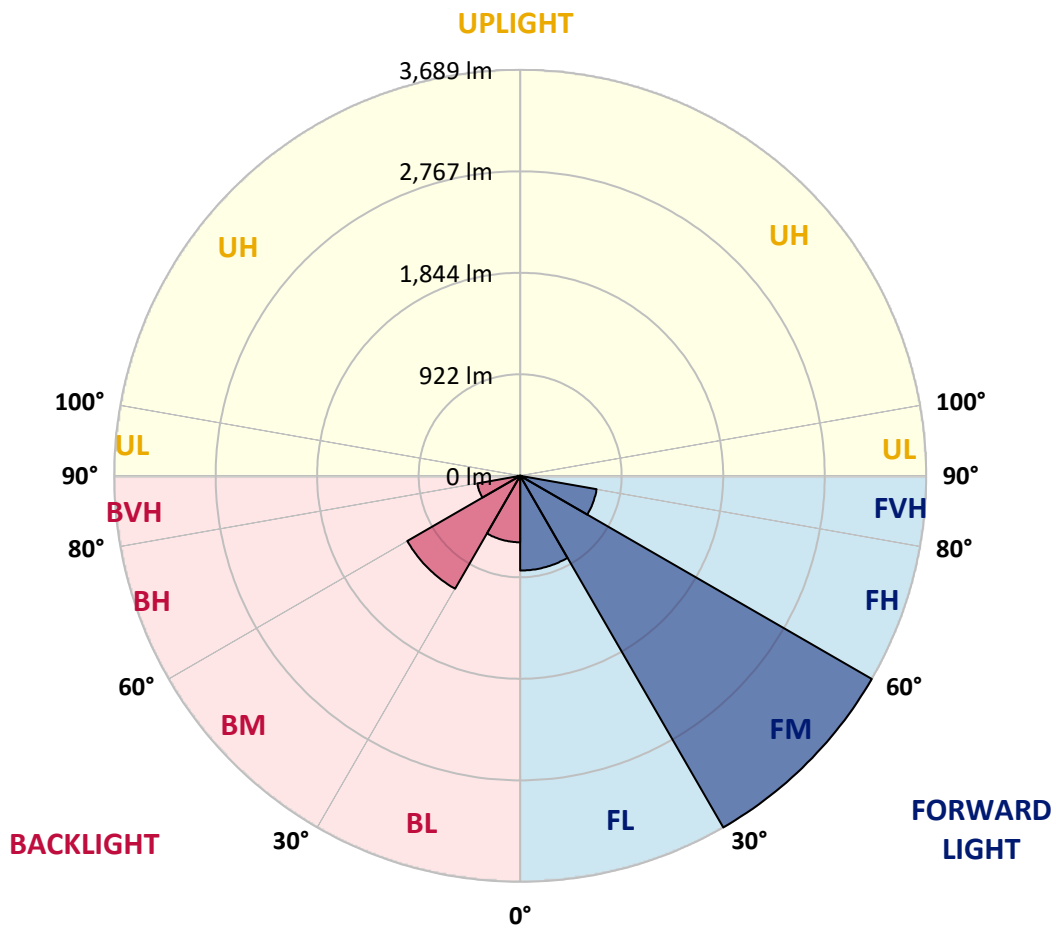


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.5	11.5			
FM (30°-60°)	3688.9	49.3			
FH (60°-80°)	705.1	9.4			G1/1800
FVH (80°-90°)	15.8	0.2			G1/100
BL (0°-30°)	604.2	8.1	B2/1000		
BM (30°-60°)	1184.7	15.8	B2/2500		
BH (60°-80°)	396.0	5.3	B1/500		G1/500
BVH (80°-90°)	23.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1913.6	1913.6	1913.6	1913.6	1913.6	1913.6	1913.6	1913.6	1913.6	1913.6	1913.6
2.5°	1820.4	1815.8	1826.9	1835.3	1845.6	1858.6	1865.1	1868.9	1901.5	1893.1	1918.2
5°	1781.3	1769.2	1777.6	1784.1	1801.8	1817.6	1835.3	1863.3	1893.1	1906.1	1936.9
7.5°	1746.8	1740.3	1738.4	1743.1	1767.3	1787.8	1818.6	1859.5	1908.0	1929.4	1947.1
10°	1690.0	1680.7	1694.6	1725.4	1731.9	1774.8	1810.2	1868.9	1910.8	1948.1	2000.2
12.5°	1664.8	1655.5	1658.3	1676.0	1721.7	1762.7	1804.6	1870.7	1959.2	1974.1	2044.0
15°	1704.9	1695.6	1698.4	1693.7	1737.5	1758.9	1825.1	1908.0	1992.8	2017.9	2092.5
17.5°	1796.2	1797.1	1785.0	1774.8	1764.5	1810.2	1855.8	1930.3	2005.8	2069.2	2125.1
20°	1970.4	1939.7	1915.4	1857.7	1841.8	1861.4	1919.2	1990.9	2058.9	2111.1	2174.4
22.5°	2104.6	2107.4	2072.9	1977.9	1943.4	1951.8	2001.2	2059.8	2134.4	2171.6	2244.3
25°	2299.3	2279.7	2242.4	2167.0	2089.7	2096.2	2132.5	2185.6	2206.1	2232.2	2311.4
27.5°	2477.2	2482.8	2409.2	2338.4	2242.4	2223.8	2289.0	2298.3	2263.9	2313.3	2340.3
30°	2658.0	2653.3	2604.9	2521.9	2427.8	2431.6	2460.5	2414.8	2367.3	2394.3	2412.9
32.5°	2845.2	2792.1	2790.2	2715.7	2644.0	2609.5	2574.1	2596.5	2522.9	2528.5	2510.8
35°	2995.2	3002.7	2959.8	2906.7	2871.3	2810.7	2713.9	2753.9	2739.9	2733.4	2657.0
37.5°	3104.2	3075.3	3096.8	3079.1	3045.5	2970.1	2869.4	2907.6	2914.2	2945.8	2857.3
40°	3193.6	3181.5	3238.4	3247.7	3224.4	3061.4	2880.6	2994.3	3092.1	3161.0	3055.8
42.5°	3236.5	3262.6	3322.2	3393.9	3341.8	3167.6	2938.4	3060.4	3278.4	3387.4	3244.0
45°	3294.3	3260.7	3349.2	3480.6	3481.5	3257.0	2994.3	3149.9	3423.8	3582.1	3372.5
47.5°	3235.6	3252.3	3343.6	3510.4	3553.3	3351.1	3145.2	3276.6	3584.0	3724.7	3491.8
50°	3104.2	3137.7	3304.5	3477.8	3607.3	3450.8	3318.5	3413.5	3732.1	3839.3	3511.3
52.5°	2967.3	2985.9	3246.8	3503.0	3631.5	3579.3	3550.5	3602.6	3912.9	3968.8	3535.6
55°	2594.6	2683.1	3055.8	3491.8	3749.8	3811.3	3789.0	3865.4	4117.8	4173.7	3667.9
56°	2422.3	2468.8	2941.2	3439.6	3773.1	3896.1	3884.9	3919.4	4226.8	4285.5	3688.3
57.5°	2103.6	2107.4	2508.0	3208.6	3685.6	3921.3	3910.1	3937.1	4205.4	4165.3	3508.5
60°	1316.4	1374.2	1706.8	2467.9	3134.0	3638.0	3701.4	3484.3	3545.8	3461.0	2729.7
62.5°	682.0	673.6	894.4	1443.1	2080.3	2604.9	2663.5	2653.3	2558.3	2434.4	1783.2
65°	340.0	341.9	467.7	714.6	1065.8	1363.9	1527.9	1545.6	1293.1	1189.7	845.9
67.5°	246.9	256.2	336.3	436.9	502.2	561.8	688.5	675.4	511.5	486.3	450.9
70°	191.9	200.3	273.0	333.5	302.8	302.8	329.8	341.0	364.3	374.5	386.6
72.5°	139.7	146.3	208.7	230.1	198.4	213.3	246.9	273.0	297.2	300.9	314.9
75°	96.0	101.5	137.0	126.7	119.2	147.2	180.7	205.0	222.7	232.0	240.4
77.5°	62.4	64.3	78.3	66.1	76.4	95.0	117.4	137.9	155.6	163.0	164.9
80°	27.9	30.7	33.5	41.9	53.1	68.0	83.8	100.6	111.8	114.6	120.2
82.5°	15.8	15.8	20.5	29.8	39.1	49.4	60.6	72.7	85.7	88.5	87.6
85°	8.4	8.4	12.1	17.7	24.2	28.9	27.9	28.9	30.7	35.4	34.5
87.5°	2.8	2.8	3.7	3.7	4.7	5.6	4.7	6.5	8.4	8.4	8.4
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°	1913.6	1913.6	1913.6	1913.6	1913.6	1913.6	1913.6	1913.6	1913.6	1913.6	1913.6
2.5°	1910.8	1919.2	1908.0	1932.2	1932.2	1927.6	1904.3	1911.7	1917.3	1917.3	1922.0
5°	1947.1	1944.3	1951.8	1922.9	1905.2	1898.7	1860.5	1841.8	1826.0	1825.1	1811.1
7.5°	1967.6	1960.2	1957.4	1935.9	1857.7	1810.2	1728.2	1680.7	1670.4	1634.1	1648.1
10°	2000.2	2014.2	2000.2	1883.8	1774.8	1665.8	1585.6	1512.0	1483.2	1459.9	1445.9
12.5°	2067.3	2060.8	1979.7	1822.3	1669.5	1540.0	1420.7	1343.4	1314.5	1294.0	1292.2
15°	2124.1	2091.5	1967.6	1725.4	1505.5	1367.6	1269.8	1214.9	1201.8	1203.7	1212.1
17.5°	2143.7	2121.3	1904.3	1624.8	1383.5	1221.4	1175.7	1167.3	1179.5	1193.4	1197.2
20°	2174.4	2139.0	1878.2	1487.8	1232.6	1130.1	1127.3	1157.1	1179.5	1199.9	1202.7
22.5°	2238.7	2149.3	1793.4	1358.3	1129.1	1103.1	1130.1	1155.2	1189.7	1206.5	1191.6
25°	2257.4	2126.9	1674.1	1202.7	1063.9	1086.3	1115.2	1149.6	1173.9	1183.2	1189.7
27.5°	2273.2	2092.5	1513.0	1099.3	1043.4	1085.4	1115.2	1144.0	1157.1	1165.5	1172.9
30°	2317.9	2082.2	1373.2	1030.4	1030.4	1066.7	1104.9	1112.4	1130.1	1140.3	1153.4
32.5°	2340.3	2011.4	1229.8	986.6	1017.3	1076.0	1078.8	1092.8	1093.7	1102.1	1088.2
35°	2399.0	1961.1	1096.5	954.9	1022.9	1066.7	1080.7	1072.3	1026.7	1004.3	1009.0
37.5°	2441.8	1935.9	1000.6	951.2	1023.9	1077.0	1084.4	1021.1	973.6	936.3	945.6
40°	2557.3	1873.5	927.9	944.7	1032.3	1088.2	1067.7	998.7	913.0	874.8	868.3
42.5°	2645.8	1828.8	882.3	937.2	1038.8	1104.0	1059.3	954.0	866.4	831.0	840.3
45°	2748.3	1818.6	858.0	939.1	1050.0	1112.4	1049.0	919.5	826.4	812.4	809.6
47.5°	2784.7	1745.0	832.0	923.3	1047.2	1109.6	1014.6	893.4	811.5	813.3	820.8
50°	2724.1	1669.5	812.4	890.6	1028.5	1084.4	960.5	859.0	803.1	826.4	839.4
52.5°	2646.8	1592.2	772.3	846.9	990.3	1045.3	935.4	857.1	794.7	787.2	790.0
55°	2670.1	1528.8	716.4	787.2	928.8	972.6	907.4	839.4	774.2	746.2	755.6
56°	2594.6	1463.6	680.1	750.0	886.9	926.0	893.4	823.6	757.4	738.8	738.8
57.5°	2381.3	1244.7	632.6	690.3	798.4	845.0	866.4	814.2	738.8	706.2	707.1
60°	1756.1	885.1	567.4	608.4	661.5	698.7	798.4	788.2	692.2	669.8	661.5
62.5°	1082.6	646.6	520.8	536.6	563.6	594.4	696.9	713.6	642.8	618.6	613.0
65°	606.5	494.7	485.4	491.9	504.9	520.8	578.5	615.8	567.4	530.1	528.2
67.5°	443.5	442.5	450.0	455.6	461.2	461.2	475.1	490.0	483.5	453.7	450.9
70°	394.1	396.9	402.5	403.4	405.3	398.7	387.6	382.9	390.4	371.7	368.0
72.5°	325.1	334.5	341.0	341.9	331.7	323.3	308.4	292.5	286.9	283.2	282.3
75°	249.7	256.2	259.0	258.1	254.3	242.2	224.5	208.7	198.4	187.3	192.8
77.5°	168.6	177.9	182.6	182.6	177.0	158.4	150.0	137.9	127.6	115.5	117.4
80°	118.3	124.8	132.3	131.4	122.0	112.7	100.6	89.4	81.1	71.7	70.8
82.5°	88.5	92.2	96.0	94.1	87.6	78.3	69.9	59.6	50.3	43.8	43.8
85°	31.7	34.5	41.9	43.8	47.5	47.5	40.1	33.5	27.0	22.4	22.4
87.5°	9.3	9.3	10.2	10.2	9.3	10.2	8.4	9.3	10.2	6.5	6.5
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)