

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: P458593

Luminaire Tested: **GALN-SA1C-735-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6572 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

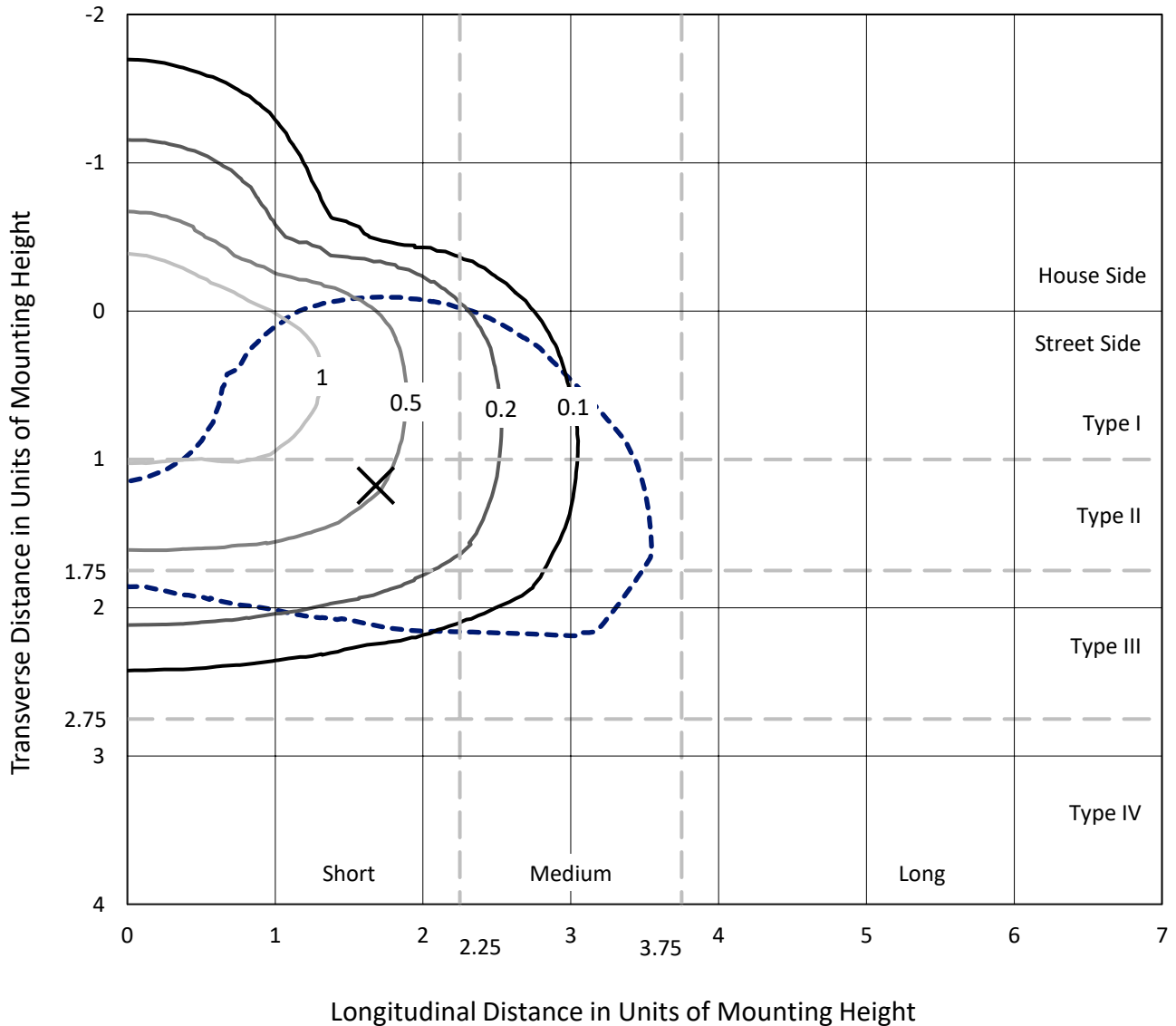
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

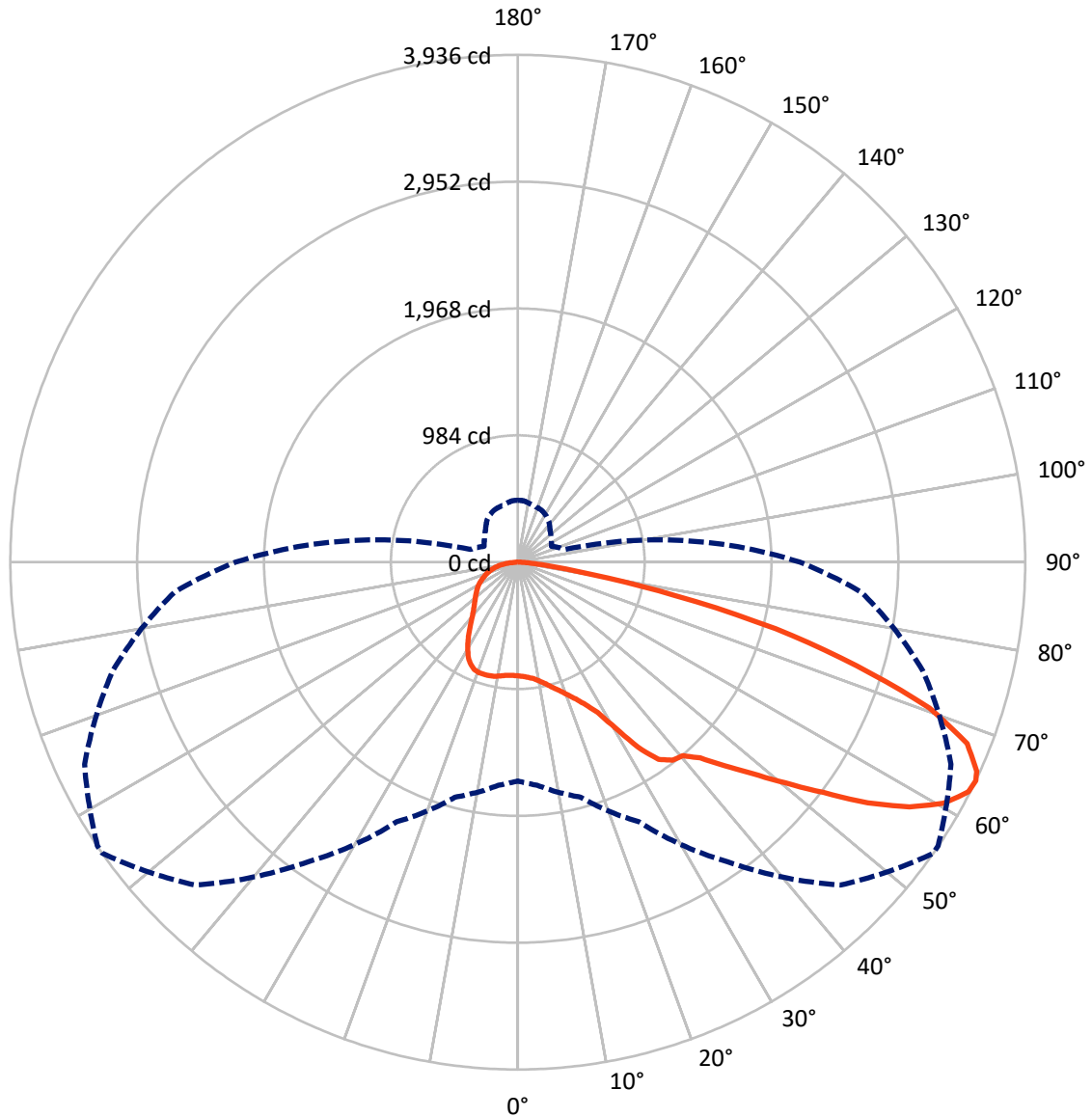
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1596.5	0.0	1596.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	4975.5	0.0	4975.5
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	6572.0	0.0	6572.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.8	1.3
10°-20°	270.6	4.1
20°-30°	481.8	7.3
30°-40°	741.3	11.3
40°-50°	1050.9	16.0
50°-60°	1521.1	23.1
60°-70°	1574.2	24.0
70°-80°	737.2	11.2
80°-90°	109.1	1.7
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°	6572.0	100.0
0°-180°	6572.0	100.0

**Coefficient of Utilization**



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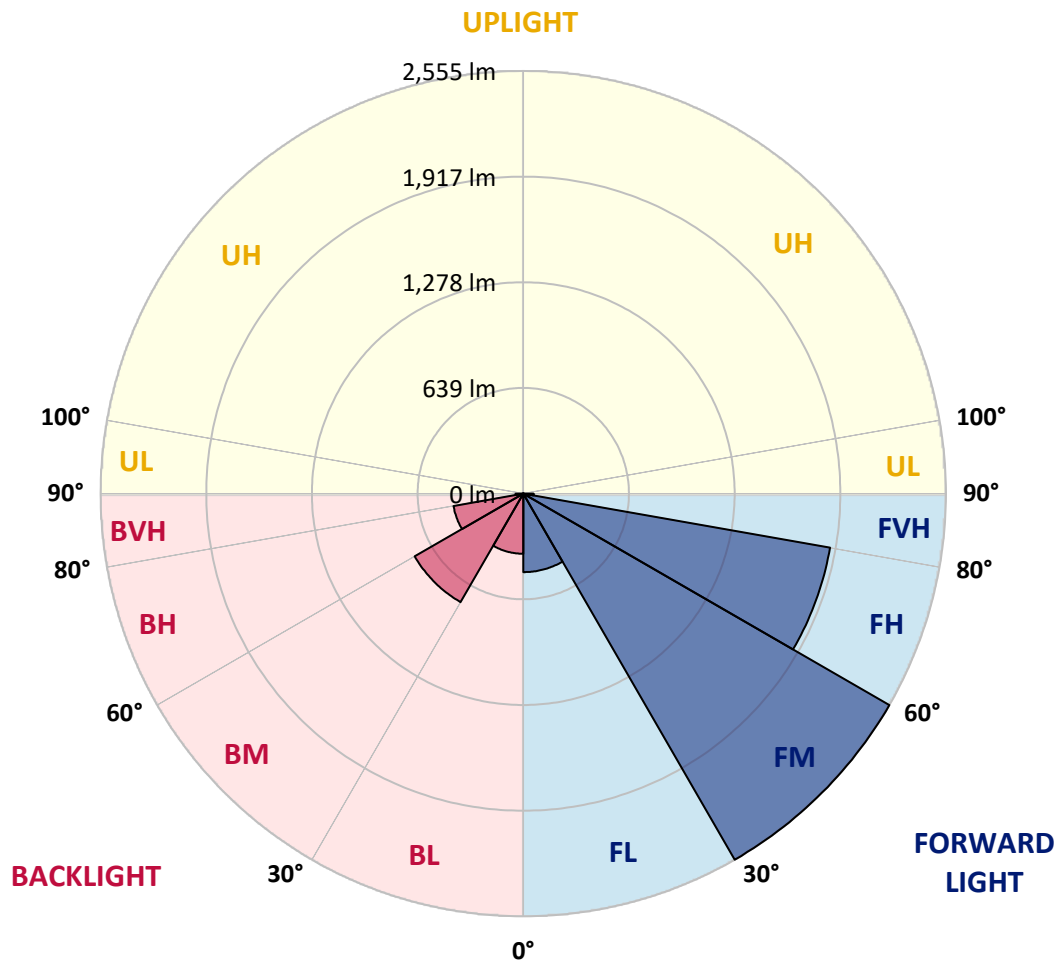
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	474.6	7.2			
FM (30°-60°)	2555.4	38.9			
FH (60°-80°)	1883.1	28.7			G2/5000
FVH (80°-90°)	62.5	1.0			G1/100
BL (0°-30°)	363.6	5.5	B1/500		
BM (30°-60°)	757.9	11.5	B1/1000		
BH (60°-80°)	428.3	6.5	B1/500		G1/500
BVH (80°-90°)	46.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8
2.5°	891.7	891.3	892.4	891.3	892.0	889.5	888.4	889.1	888.0	886.2	882.9
5°	902.6	902.3	902.6	901.2	901.9	900.4	897.9	898.6	896.8	892.8	888.0
7.5°	921.3	919.9	919.9	919.5	918.0	915.8	914.0	913.3	911.4	906.3	899.0
10°	945.5	945.5	945.9	942.9	944.8	940.7	938.9	938.5	932.3	925.7	915.5
12.5°	977.4	979.2	978.1	976.6	975.9	974.4	968.2	969.7	962.7	951.4	938.9
15°	1016.9	1019.9	1018.0	1017.3	1015.5	1010.0	1007.4	1006.3	997.2	980.7	964.2
17.5°	1069.3	1065.7	1064.2	1062.4	1054.7	1050.6	1046.2	1045.5	1037.5	1018.0	992.4
20°	1115.1	1120.2	1117.3	1115.5	1107.8	1100.1	1096.8	1095.7	1088.7	1067.5	1026.5
22.5°	1169.7	1170.8	1171.9	1167.5	1163.8	1158.0	1152.1	1150.3	1147.7	1125.7	1075.6
25°	1227.9	1232.3	1228.7	1224.3	1219.9	1219.5	1225.0	1224.3	1223.2	1201.9	1140.8
27.5°	1322.8	1326.9	1328.0	1323.2	1306.3	1307.8	1320.3	1324.3	1341.1	1306.0	1224.7
30°	1376.3	1380.3	1389.5	1407.5	1434.2	1457.6	1487.7	1496.8	1513.0	1446.6	1324.3
32.5°	1409.3	1410.7	1427.2	1460.6	1540.8	1628.4	1710.0	1713.3	1723.6	1630.5	1415.5
35°	1461.3	1462.4	1475.6	1512.2	1606.4	1752.2	1878.6	1882.6	1874.2	1687.7	1458.0
37.5°	1525.4	1528.3	1536.8	1567.2	1679.6	1855.8	1948.5	1945.6	1870.9	1733.1	1533.1
40°	1618.8	1618.8	1608.9	1650.0	1756.9	1915.2	1973.1	1967.9	1948.2	1864.6	1647.4
42.5°	1701.3	1699.8	1723.2	1751.1	1853.6	2006.8	2076.0	2084.4	2117.0	2029.9	1777.4
45°	1808.6	1815.2	1828.4	1878.9	2018.1	2163.2	2252.6	2260.6	2306.8	2224.4	1929.5
47.5°	1917.0	1919.2	1960.6	2028.0	2221.8	2375.3	2448.6	2461.8	2503.9	2451.9	2093.2
50°	1994.0	2014.8	2081.1	2187.4	2431.7	2633.9	2691.1	2706.8	2781.2	2699.5	2284.1
52.5°	2075.3	2095.8	2176.8	2338.7	2672.8	2898.4	2968.8	2979.4	3056.7	2950.1	2479.3
55°	2144.9	2163.9	2255.9	2472.7	2864.7	3168.4	3295.9	3283.4	3320.4	3143.1	2629.9
57.5°	2156.2	2171.6	2287.4	2558.5	3009.1	3399.9	3582.7	3590.1	3547.2	3287.5	2754.1
60°	2068.3	2099.8	2232.8	2549.3	3073.9	3561.1	3796.7	3801.8	3680.2	3361.5	2803.5
62.5°	1912.6	1909.3	2070.1	2402.0	2983.1	3597.8	3922.7	3917.2	3732.2	3325.9	2755.6
64°	1697.6	1737.2	1887.3	2221.1	2836.5	3541.3	3935.9	3933.0	3707.3	3251.9	2673.9
65°	1566.4	1564.2	1712.6	2073.1	2690.7	3456.4	3912.4	3908.4	3655.3	3185.6	2610.5
67.5°	1130.9	1136.0	1282.5	1599.8	2187.4	3124.1	3759.7	3744.7	3450.1	2965.8	2369.4
70°	685.0	688.0	803.0	1061.3	1570.1	2525.5	3388.9	3389.7	3136.2	2637.6	2016.7
72.5°	360.8	368.5	414.7	602.6	953.6	1772.0	2749.3	2814.5	2692.5	2251.1	1593.2
75°	200.8	201.8	234.5	297.1	486.5	991.7	2066.5	2085.2	2131.7	1811.9	1178.1
77.5°	153.1	155.3	165.6	192.0	264.9	459.7	1250.7	1344.4	1502.3	1277.4	672.2
80°	124.2	126.4	135.2	150.9	176.2	218.0	581.0	631.6	804.1	567.1	262.3
82.5°	96.7	95.2	106.6	116.9	128.2	128.9	238.5	263.8	327.5	244.0	113.6
85°	71.8	71.8	81.0	78.8	82.8	75.5	105.1	116.1	131.1	103.7	52.8
87.5°	28.6	31.5	53.1	47.6	37.0	29.7	38.8	41.0	45.4	40.7	22.0
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°	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8
2.5°	883.2	884.3	881.8	879.9	879.2	878.1	877.0	877.4	878.8	880.3	879.9
5°	887.6	888.0	883.6	881.4	879.9	878.5	878.5	879.6	882.5	884.7	884.7
7.5°	898.6	898.6	892.4	888.4	886.2	883.6	882.9	883.2	885.4	888.4	888.7
10°	915.8	914.4	906.3	900.1	896.1	889.8	884.3	881.4	882.5	884.3	884.3
12.5°	936.7	932.7	922.4	914.0	904.1	892.4	881.0	875.2	874.8	876.6	875.9
15°	959.1	954.7	940.4	925.0	907.8	890.6	877.0	868.6	862.0	860.2	864.2
17.5°	985.1	975.9	956.1	934.9	909.2	886.9	865.6	848.4	836.7	833.4	834.5
20°	1016.6	1004.5	977.7	944.4	908.1	873.7	840.7	817.7	798.6	792.7	793.5
22.5°	1060.2	1039.3	1000.1	949.2	899.0	848.8	803.0	773.0	749.9	740.7	746.2
25°	1109.6	1086.9	1021.3	948.1	875.2	808.9	758.3	719.1	698.2	684.7	687.6
27.5°	1177.8	1137.5	1044.0	938.2	841.1	760.1	701.5	664.5	645.5	638.5	641.8
30°	1264.9	1203.0	1068.6	911.4	787.3	698.6	644.4	620.2	608.8	600.1	603.0
32.5°	1328.0	1249.2	1074.1	866.4	729.0	642.5	605.5	587.6	575.1	566.7	568.5
35°	1373.0	1288.4	1071.5	811.1	668.2	596.4	574.8	560.1	540.0	521.7	518.4
37.5°	1433.5	1337.5	1052.8	750.6	608.1	565.3	549.9	522.8	493.8	469.3	468.2
40°	1526.1	1395.0	1012.9	679.5	556.8	542.2	523.5	488.3	457.2	437.4	435.9
42.5°	1621.8	1448.1	958.7	604.8	514.7	518.0	495.3	460.5	441.4	428.6	427.1
45°	1738.6	1505.6	900.1	540.0	483.6	495.3	470.7	450.6	439.2	430.8	428.6
47.5°	1865.0	1564.6	834.1	481.7	457.2	474.4	460.5	451.3	445.1	439.2	436.7
50°	2001.3	1630.5	772.2	434.8	433.4	452.8	459.4	456.1	452.4	450.6	448.4
52.5°	2150.7	1698.0	720.2	401.9	412.5	437.4	459.7	462.3	462.3	461.2	459.7
55°	2251.9	1744.8	667.5	375.1	391.2	424.9	459.0	468.9	472.6	471.1	469.6
57.5°	2326.6	1770.5	601.2	352.0	373.3	412.9	455.0	469.6	473.3	475.1	474.4
60°	2342.0	1746.7	514.3	327.9	353.9	395.3	440.3	458.6	463.4	474.8	475.9
62.5°	2272.7	1673.4	427.9	304.1	330.1	368.5	420.6	446.2	455.7	473.3	475.1
64°	2187.7	1591.4	379.9	289.0	314.7	353.5	410.7	442.9	455.4	478.8	480.3
65°	2125.5	1531.6	349.8	279.5	304.8	343.6	405.2	444.0	458.6	487.2	489.4
67.5°	1896.1	1326.1	289.4	257.2	281.3	326.8	406.3	453.2	457.9	490.5	490.2
70°	1569.0	1055.8	242.5	236.7	258.6	313.2	401.9	438.5	438.9	460.5	455.4
72.5°	1174.8	780.3	210.3	215.4	233.4	281.0	379.5	418.7	412.5	415.4	410.3
75°	807.0	516.2	181.0	192.7	207.0	248.4	348.0	380.3	370.4	366.7	363.0
77.5°	430.8	285.4	150.6	170.3	179.9	214.7	303.7	334.8	324.6	310.3	305.5
80°	174.4	134.4	121.3	141.0	146.5	172.9	252.8	272.2	264.5	239.6	231.5
82.5°	87.6	80.6	95.2	111.0	111.4	123.5	187.9	206.2	189.0	158.6	151.7
85°	45.8	47.3	65.6	78.0	68.9	66.7	112.8	124.9	114.7	99.6	89.8
87.5°	16.5	19.0	34.4	34.1	24.2	12.8	24.9	12.1	6.6	4.0	5.1
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)