

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: P450705

Luminaire Tested: **GALN-SA1C-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450705  
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-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6425 lumens  
Efficiency: N/A  
Efficacy: 112.7 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

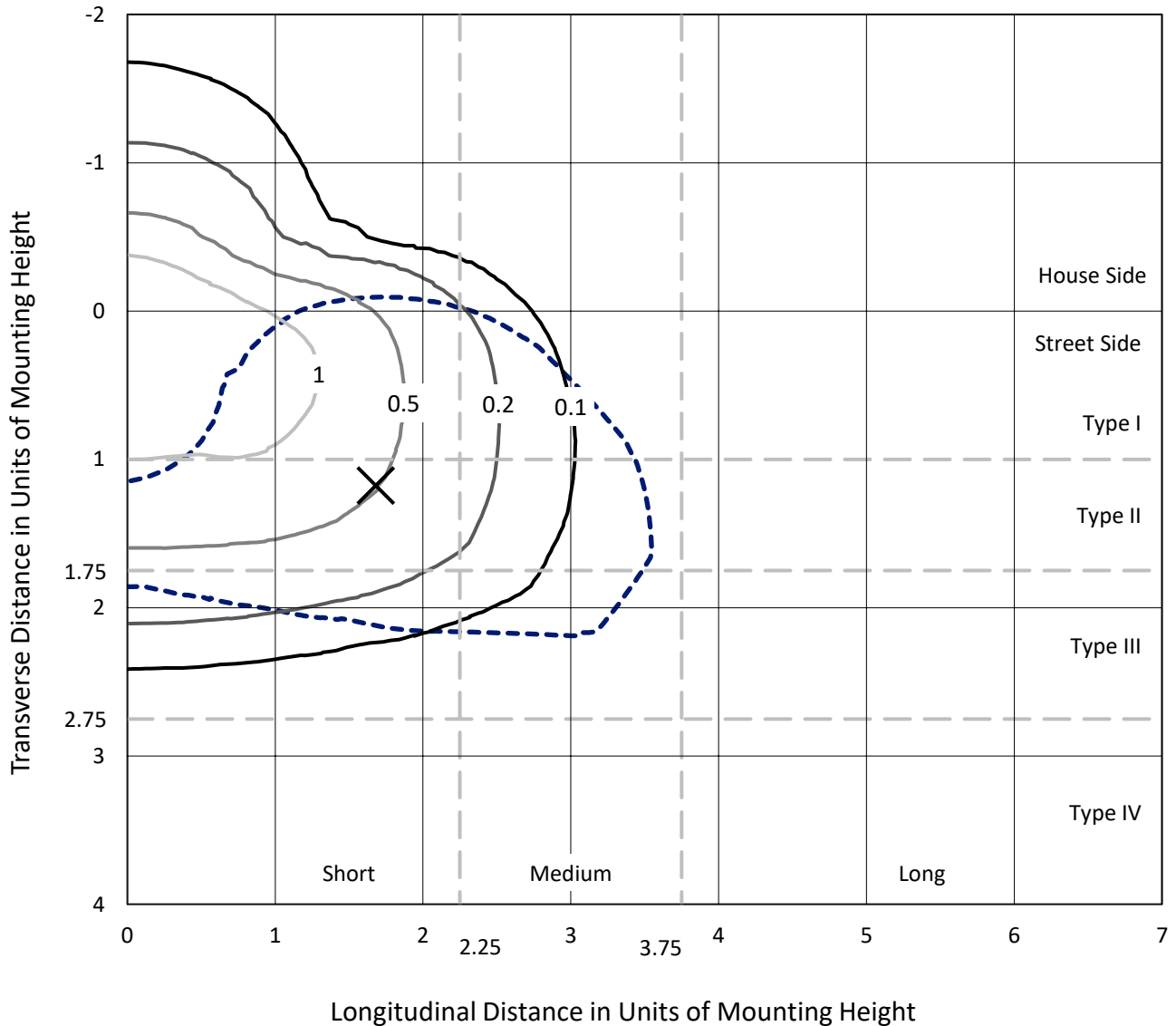
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

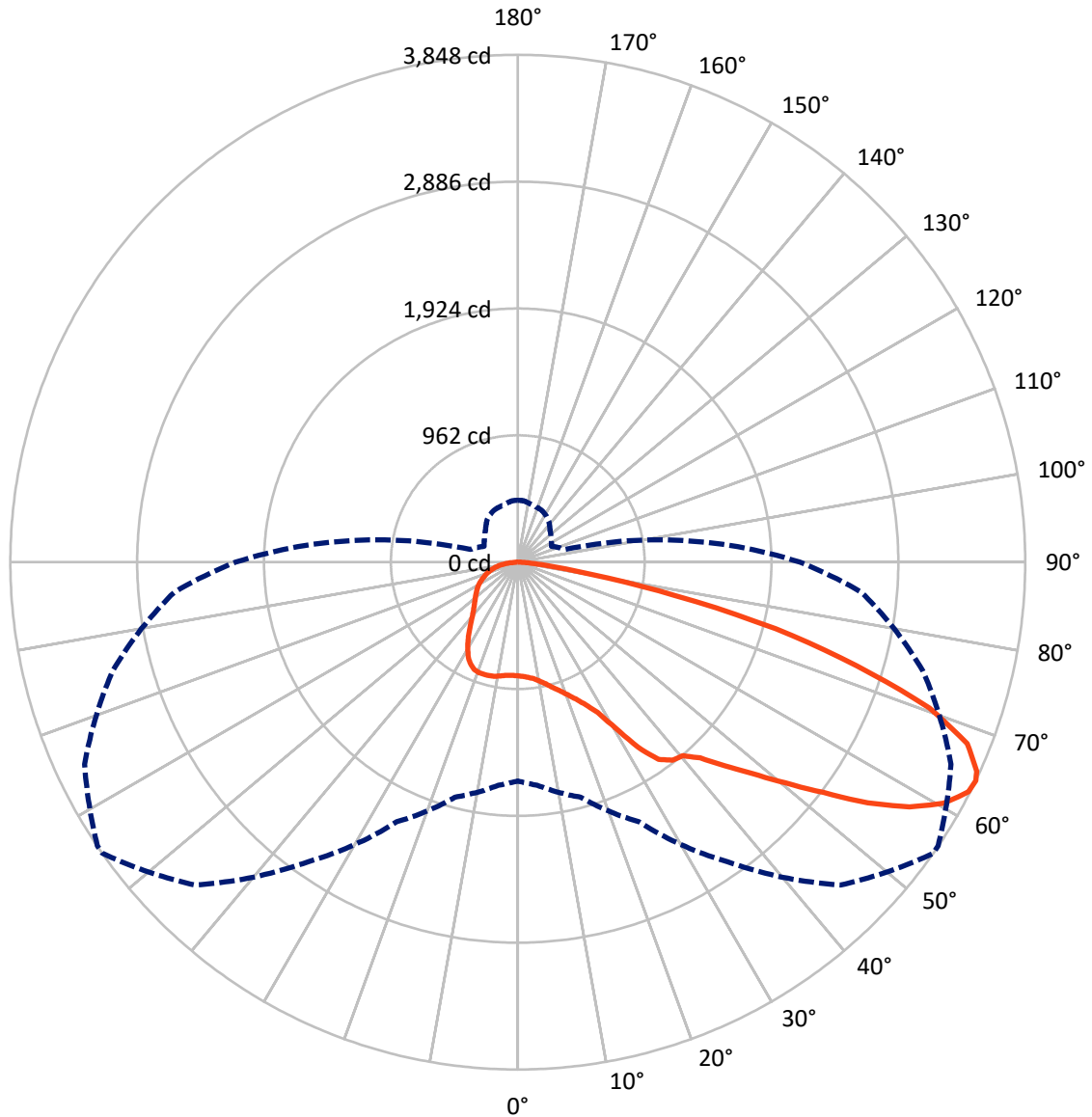
✕ Max cd  
 - - - 1/2 Max cd



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	1560.8	0.0	1560.8
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	4864.2	0.0	4864.2
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	6425.0	0.0	6425.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	1.3
10°-20°	264.6	4.1
20°-30°	471.0	7.3
30°-40°	724.7	11.3
40°-50°	1027.4	16.0
50°-60°	1487.1	23.1
60°-70°	1539.0	24.0
70°-80°	720.7	11.2
80°-90°	106.7	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°	6425.0	100.0
0°-180°	6425.0	100.0

**Coefficient of Utilization**



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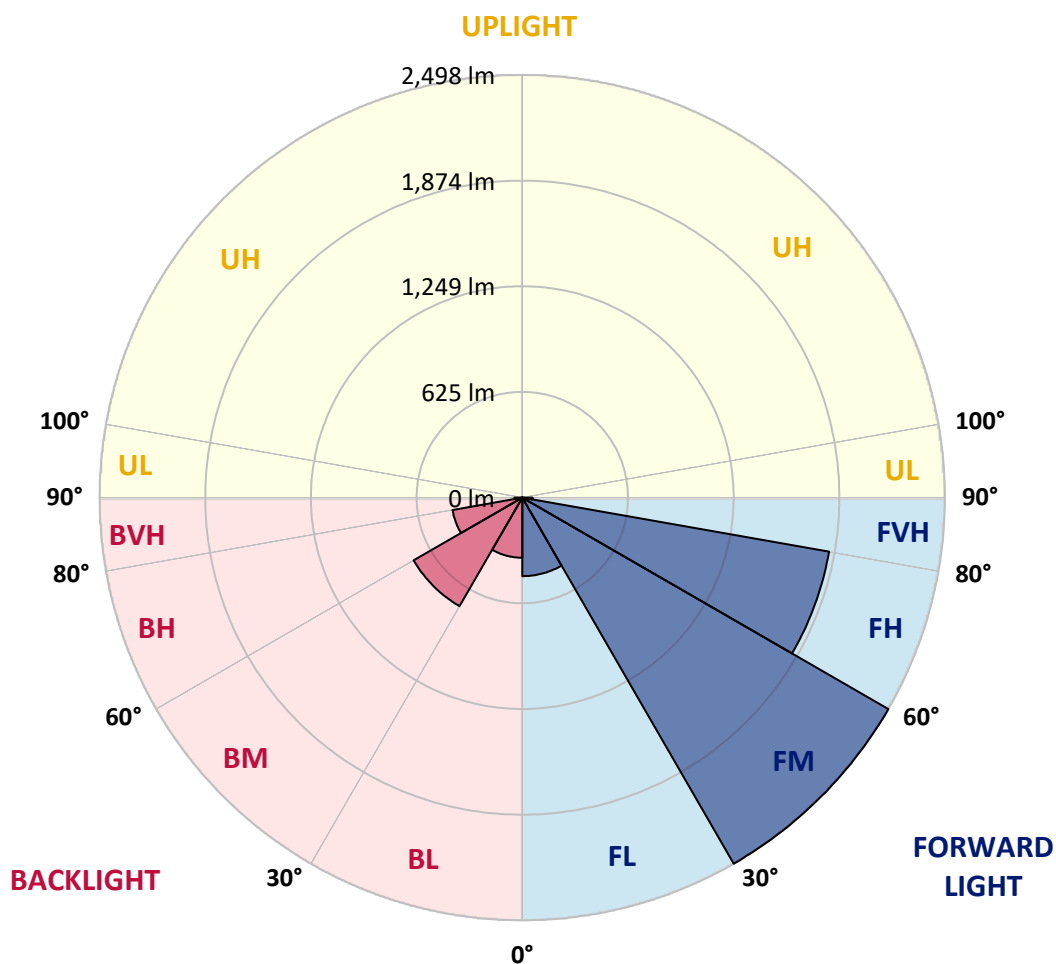
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	464.0	7.2			
FM	(30°-60°)	2498.2	38.9			
FH	(60°-80°)	1840.9	28.7			G2/5000
FVH	(80°-90°)	61.1	1.0			G1/100
BL	(0°-30°)	355.5	5.5	B1/500		
BM	(30°-60°)	741.0	11.5	B1/1000		
BH	(60°-80°)	418.7	6.5	B1/500		G1/500
BVH	(80°-90°)	45.6	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°	862.0	862.0	862.0	862.0	862.0	862.0	862.0	862.0	862.0	862.0	862.0
2.5°	871.7	871.4	872.4	871.4	872.1	869.6	868.5	869.2	868.1	866.3	863.1
5°	882.5	882.1	882.5	881.0	881.7	880.3	877.8	878.5	876.7	872.8	868.1
7.5°	900.7	899.3	899.3	898.9	897.5	895.3	893.6	892.8	891.1	886.0	878.9
10°	924.4	924.4	924.7	921.9	923.6	919.7	917.9	917.6	911.5	905.0	895.0
12.5°	955.5	957.3	956.2	954.8	954.1	952.7	946.6	948.0	941.2	930.1	917.9
15°	994.2	997.1	995.3	994.6	992.8	987.4	984.9	983.8	974.9	958.7	942.6
17.5°	1045.4	1041.8	1040.4	1038.6	1031.1	1027.1	1022.8	1022.1	1014.3	995.3	970.2
20°	1090.2	1095.2	1092.3	1090.5	1083.0	1075.5	1072.3	1071.2	1064.4	1043.6	1003.5
22.5°	1143.5	1144.6	1145.7	1141.4	1137.8	1132.1	1126.3	1124.6	1122.1	1100.6	1051.5
25°	1200.5	1204.8	1201.2	1196.9	1192.6	1192.2	1197.6	1196.9	1195.8	1175.1	1115.2
27.5°	1293.2	1297.2	1298.3	1293.6	1277.1	1278.6	1290.7	1294.7	1311.1	1276.8	1197.3
30°	1345.5	1349.5	1358.4	1376.0	1402.1	1425.0	1454.4	1463.4	1479.1	1414.3	1294.7
32.5°	1377.8	1379.2	1395.3	1427.9	1506.3	1591.9	1671.8	1675.0	1685.0	1594.1	1383.8
35°	1428.6	1429.7	1442.6	1478.4	1570.4	1713.0	1836.5	1840.5	1832.2	1649.9	1425.4
37.5°	1491.3	1494.2	1502.4	1532.1	1642.1	1814.3	1904.9	1902.1	1829.0	1694.4	1498.8
40°	1582.6	1582.6	1572.9	1613.1	1717.6	1872.4	1928.9	1923.9	1904.6	1822.9	1610.6
42.5°	1663.2	1661.8	1684.7	1711.9	1812.2	1961.9	2029.6	2037.8	2069.7	1984.4	1737.7
45°	1768.1	1774.6	1787.5	1836.9	1973.0	2114.8	2202.2	2210.1	2255.2	2174.6	1886.3
47.5°	1874.1	1876.3	1916.8	1982.7	2172.1	2322.2	2393.8	2406.7	2447.9	2397.0	2046.4
50°	1949.4	1969.8	2034.6	2138.4	2377.3	2575.0	2630.9	2646.3	2719.0	2639.1	2233.0
52.5°	2028.9	2048.9	2128.1	2286.4	2613.0	2833.6	2902.4	2912.7	2988.3	2884.1	2423.9
55°	2096.9	2115.5	2205.4	2417.4	2800.6	3097.5	3222.2	3210.0	3246.2	3072.8	2571.1
57.5°	2108.0	2123.0	2236.2	2501.2	2941.8	3323.9	3502.6	3509.8	3467.9	3213.9	2692.5
60°	2022.1	2052.9	2182.9	2492.3	3005.1	3481.5	3711.8	3716.8	3597.9	3286.3	2740.8
62.5°	1869.8	1866.6	2023.8	2348.3	2916.3	3517.3	3835.0	3829.6	3648.7	3251.5	2693.9
64°	1659.6	1698.3	1845.1	2171.4	2773.1	3462.1	3847.8	3845.0	3624.4	3179.2	2614.1
65°	1531.4	1529.3	1674.3	2026.7	2630.5	3379.0	3824.9	3821.0	3573.5	3114.4	2552.1
67.5°	1105.6	1110.6	1253.8	1564.0	2138.4	3054.2	3675.6	3660.9	3373.0	2899.5	2316.4
70°	669.7	672.6	785.0	1037.5	1535.0	2469.0	3313.1	3313.9	3066.0	2578.6	1971.6
72.5°	352.8	360.3	405.4	589.1	932.2	1732.3	2687.8	2751.6	2632.3	2200.8	1557.5
75°	196.3	197.3	229.2	290.5	475.6	969.5	2020.3	2038.5	2084.0	1771.4	1151.8
77.5°	149.7	151.9	161.9	187.7	258.9	449.5	1222.7	1314.4	1468.7	1248.8	657.2
80°	121.4	123.6	132.2	147.6	172.3	213.1	568.0	617.4	786.1	554.4	256.4
82.5°	94.5	93.1	104.2	114.2	125.3	126.1	233.1	257.9	320.2	238.5	111.0
85°	70.2	70.2	79.1	77.0	80.9	73.8	102.8	113.5	128.2	101.4	51.6
87.5°	27.9	30.8	51.9	46.6	36.2	29.0	38.0	40.1	44.4	39.8	21.5
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°	862.0	862.0	862.0	862.0	862.0	862.0	862.0	862.0	862.0	862.0	862.0
2.5°	863.5	864.5	862.0	860.3	859.5	858.5	857.4	857.7	859.2	860.6	860.3
5°	867.8	868.1	863.8	861.7	860.3	858.8	858.8	859.9	862.8	864.9	864.9
7.5°	878.5	878.5	872.4	868.5	866.3	863.8	863.1	863.5	865.6	868.5	868.8
10°	895.3	893.9	886.0	879.9	876.0	869.9	864.5	861.7	862.8	864.5	864.5
12.5°	915.8	911.8	901.8	893.6	883.9	872.4	861.3	855.6	855.2	857.0	856.3
15°	937.6	933.3	919.3	904.3	887.5	870.6	857.4	849.1	842.7	840.9	844.9
17.5°	963.0	954.1	934.7	914.0	888.9	867.1	846.3	829.5	818.0	814.8	815.8
20°	993.8	982.0	955.9	923.3	887.8	854.2	821.9	799.4	780.7	775.0	775.7
22.5°	1036.5	1016.0	977.7	927.9	878.9	829.8	785.0	755.7	733.1	724.2	729.5
25°	1084.8	1062.6	998.5	926.9	855.6	790.8	741.3	703.0	682.6	669.4	672.2
27.5°	1151.4	1112.0	1020.7	917.2	822.3	743.1	685.8	649.7	631.0	624.2	627.5
30°	1236.7	1176.1	1044.7	891.1	769.6	683.0	630.0	606.3	595.2	586.6	589.5
32.5°	1298.3	1221.3	1050.1	847.0	712.7	628.2	592.0	574.5	562.3	554.0	555.8
35°	1342.3	1259.6	1047.6	792.9	653.2	583.1	561.9	547.6	527.9	510.0	506.8
37.5°	1401.4	1307.6	1029.3	733.8	594.5	552.6	537.6	511.1	482.8	458.8	457.7
40°	1492.0	1363.8	990.3	664.3	544.4	530.0	511.8	477.4	447.0	427.6	426.2
42.5°	1585.5	1415.7	937.3	591.3	503.2	506.4	484.2	450.2	431.6	419.0	417.6
45°	1699.7	1472.0	879.9	527.9	472.7	484.2	460.2	440.5	429.4	421.2	419.0
47.5°	1823.3	1529.6	815.5	471.0	447.0	463.8	450.2	441.2	435.1	429.4	426.9
50°	1956.5	1594.1	755.0	425.1	423.7	442.7	449.1	445.9	442.3	440.5	438.4
52.5°	2102.6	1660.0	704.1	392.9	403.3	427.6	449.5	452.0	452.0	450.9	449.5
55°	2201.5	1705.8	652.5	366.7	382.5	415.4	448.7	458.4	462.0	460.6	459.1
57.5°	2274.5	1730.9	587.7	344.2	364.9	403.6	444.8	459.1	462.7	464.5	463.8
60°	2289.6	1707.6	502.8	320.5	346.0	386.4	430.5	448.4	453.0	464.1	465.2
62.5°	2221.9	1636.0	418.3	297.3	322.7	360.3	411.1	436.2	445.5	462.7	464.5
64°	2138.8	1555.8	371.4	282.6	307.6	345.6	401.5	433.0	445.2	468.1	469.5
65°	2077.9	1497.4	342.0	273.3	298.0	335.9	396.1	434.1	448.4	476.3	478.5
67.5°	1853.7	1296.5	282.9	251.4	275.1	319.5	397.2	443.0	447.7	479.5	479.2
70°	1533.9	1032.2	237.1	231.4	252.8	306.2	392.9	428.7	429.1	450.2	445.2
72.5°	1148.6	762.8	205.6	210.6	228.1	274.7	371.0	409.4	403.3	406.1	401.1
75°	789.0	504.6	176.9	188.4	202.3	242.8	340.2	371.7	362.1	358.5	354.9
77.5°	421.2	279.0	147.2	166.5	175.8	209.9	296.9	327.3	317.3	303.3	298.7
80°	170.5	131.4	118.5	137.9	143.3	169.0	247.1	266.1	258.6	234.2	226.3
82.5°	85.6	78.8	93.1	108.5	108.9	120.7	183.7	201.6	184.8	155.1	148.3
85°	44.8	46.2	64.1	76.3	67.3	65.2	110.3	122.1	112.1	97.4	87.7
87.5°	16.1	18.6	33.7	33.3	23.6	12.5	24.4	11.8	6.4	3.9	5.0
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)