

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: P450937

Luminaire Tested: **GALN-SA1D-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450937
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-SA1D-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7069 lumens
Efficiency: N/A
Efficacy: 108.8 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

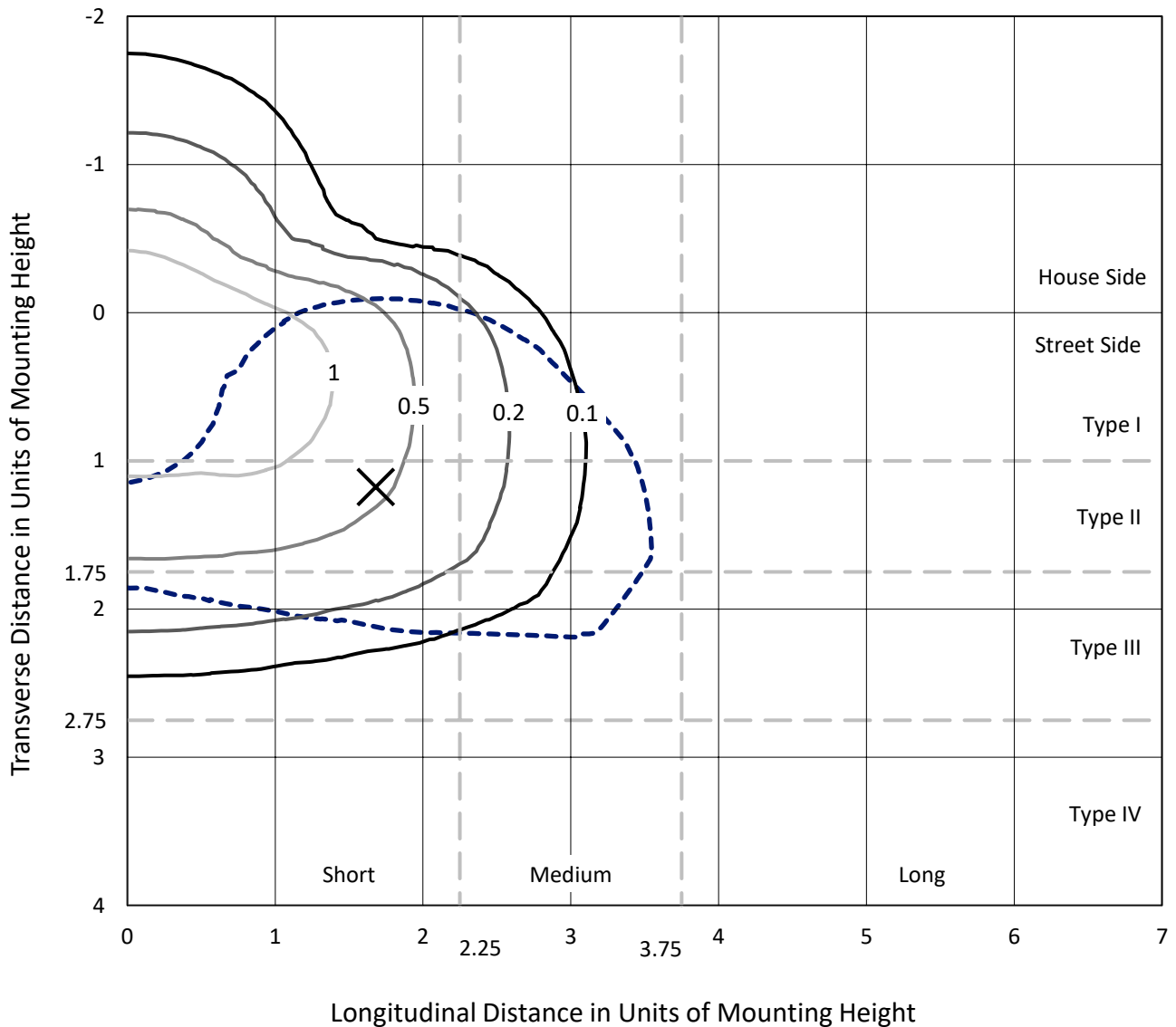
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

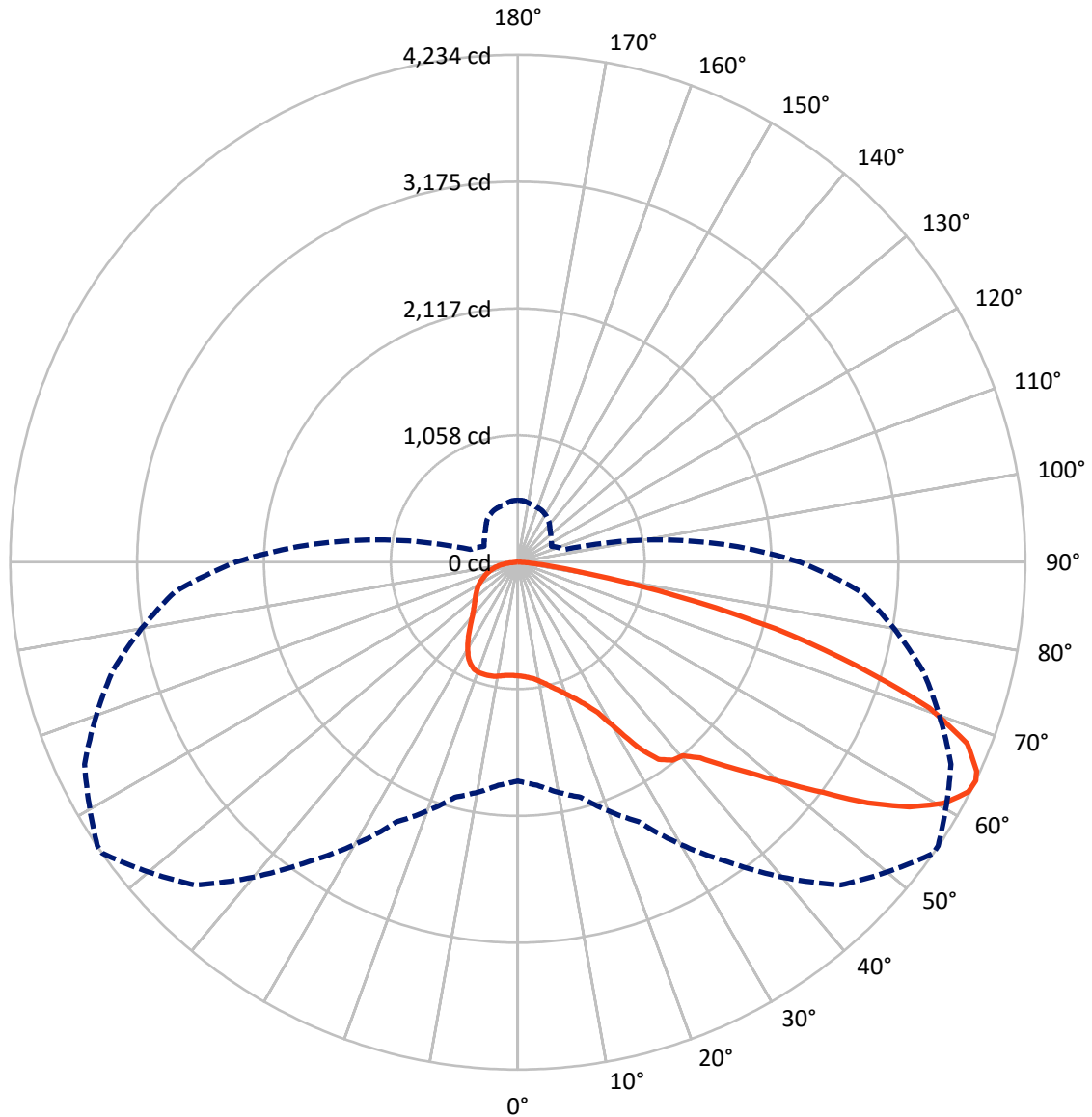
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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
House Side	Lumens	1717.2	0.0	1717.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	5351.8	0.0	5351.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	7069.0	0.0	7069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	1.3
10°-20°	291.1	4.1
20°-30°	518.2	7.3
30°-40°	797.4	11.3
40°-50°	1130.3	16.0
50°-60°	1636.1	23.1
60°-70°	1693.2	24.0
70°-80°	792.9	11.2
80°-90°	117.4	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°	7069.0	100.0
0°-180°	7069.0	100.0

Coefficient of Utilization



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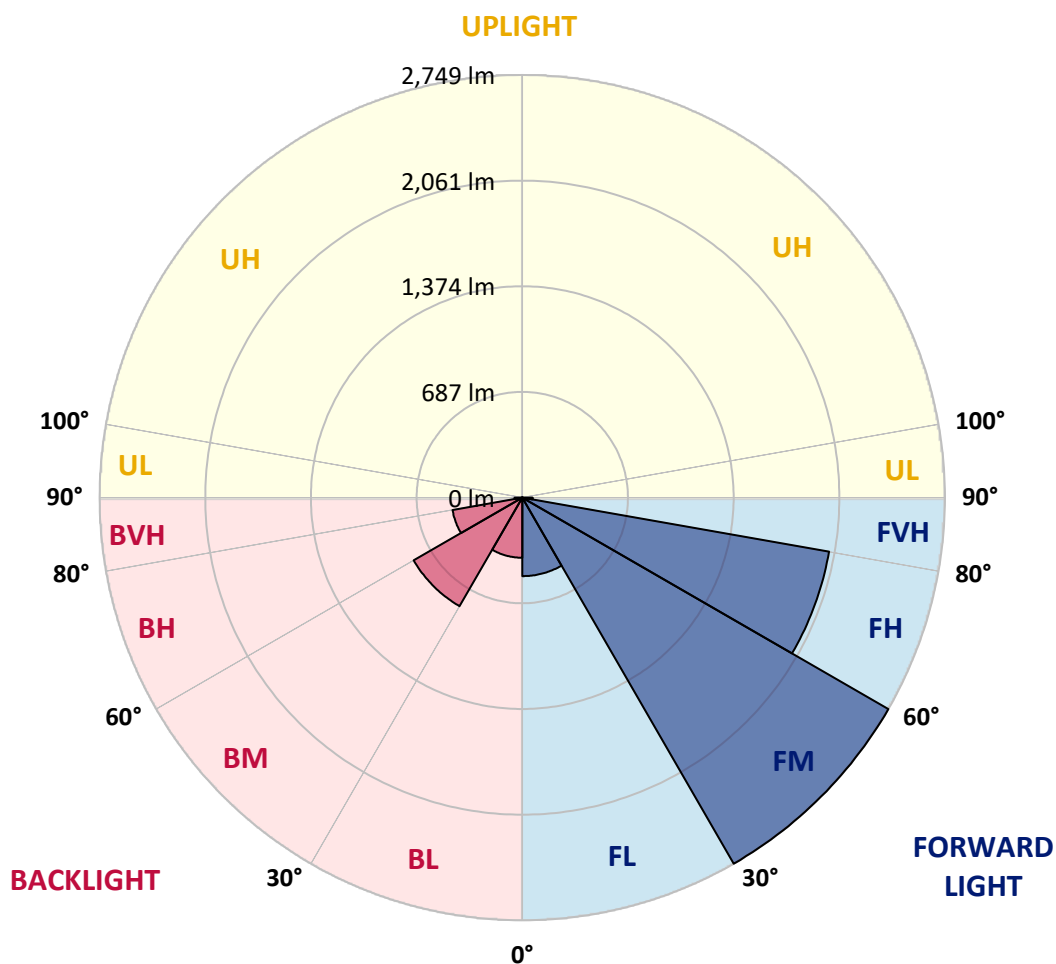
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	510.5	7.2			
FM	(30°-60°)	2748.6	38.9			
FH	(60°-80°)	2025.5	28.7			G2/5000
FVH	(80°-90°)	67.2	1.0			G1/100
BL	(0°-30°)	391.1	5.5	B1/500		
BM	(30°-60°)	815.2	11.5	B1/1000		
BH	(60°-80°)	460.7	6.5	B1/500		G1/500
BVH	(80°-90°)	50.2	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°	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4
2.5°	959.1	958.7	959.9	958.7	959.5	956.7	955.5	956.3	955.1	953.2	949.6
5°	970.9	970.5	970.9	969.3	970.1	968.5	965.8	966.6	964.6	960.3	955.1
7.5°	991.0	989.4	989.4	989.0	987.5	985.1	983.1	982.3	980.4	974.8	967.0
10°	1017.0	1017.0	1017.4	1014.3	1016.2	1011.9	1009.9	1009.5	1002.8	995.7	984.7
12.5°	1051.3	1053.3	1052.1	1050.5	1049.7	1048.1	1041.4	1043.0	1035.5	1023.3	1009.9
15°	1093.8	1097.0	1095.0	1094.2	1092.3	1086.4	1083.6	1082.4	1072.6	1054.8	1037.1
17.5°	1150.2	1146.3	1144.7	1142.7	1134.4	1130.1	1125.4	1124.6	1115.9	1095.0	1067.4
20°	1199.4	1205.0	1201.8	1199.8	1191.6	1183.3	1179.7	1178.6	1171.1	1148.2	1104.1
22.5°	1258.2	1259.3	1260.5	1255.8	1251.9	1245.6	1239.2	1237.3	1234.5	1210.9	1156.9
25°	1320.8	1325.5	1321.6	1316.9	1312.1	1311.7	1317.7	1316.9	1315.7	1292.8	1227.0
27.5°	1422.9	1427.2	1428.4	1423.3	1405.1	1406.7	1420.1	1424.4	1442.6	1404.7	1317.3
30°	1480.4	1484.7	1494.6	1513.9	1542.7	1567.9	1600.2	1610.0	1627.4	1556.1	1424.4
32.5°	1515.9	1517.4	1535.2	1571.0	1657.3	1751.5	1839.4	1842.9	1853.9	1753.9	1522.6
35°	1571.8	1573.0	1587.2	1626.6	1727.9	1884.7	2020.6	2025.0	2015.9	1815.3	1568.3
37.5°	1640.8	1643.9	1653.0	1685.7	1806.7	1996.2	2095.9	2092.7	2012.3	1864.2	1649.0
40°	1741.2	1741.2	1730.6	1774.7	1889.8	2060.0	2122.3	2116.8	2095.5	2005.6	1772.0
42.5°	1829.9	1828.3	1853.5	1883.5	1993.8	2158.5	2233.0	2242.1	2277.1	2183.4	1911.9
45°	1945.4	1952.5	1966.6	2021.0	2170.7	2326.8	2422.9	2431.6	2481.2	2392.6	2075.4
47.5°	2062.0	2064.4	2108.9	2181.4	2389.8	2554.9	2633.7	2647.9	2693.2	2637.3	2251.5
50°	2144.7	2167.2	2238.5	2352.8	2615.6	2833.1	2894.6	2911.5	2991.5	2903.7	2456.8
52.5°	2232.2	2254.3	2341.4	2515.5	2874.9	3117.6	3193.3	3204.7	3287.8	3173.2	2666.8
55°	2307.1	2327.6	2426.5	2659.7	3081.4	3408.0	3545.1	3531.8	3571.5	3380.8	2828.8
57.5°	2319.3	2335.8	2460.4	2752.0	3236.6	3657.1	3853.7	3861.6	3815.5	3536.1	2962.4
60°	2224.7	2258.6	2401.7	2742.1	3306.4	3830.4	4083.8	4089.3	3958.5	3615.7	3015.6
62.5°	2057.3	2053.7	2226.7	2583.7	3208.6	3869.8	4219.3	4213.4	4014.4	3577.5	2963.9
64°	1826.0	1868.5	2030.1	2389.0	3051.0	3809.2	4233.5	4230.4	3987.7	3497.9	2876.1
65°	1684.9	1682.5	1842.1	2229.9	2894.2	3717.7	4208.3	4204.0	3931.7	3426.5	2807.9
67.5°	1216.4	1221.9	1379.5	1720.8	2352.8	3360.3	4044.0	4027.8	3711.0	3190.1	2548.6
70°	736.8	740.0	863.7	1141.5	1688.8	2716.5	3645.2	3646.0	3373.3	2837.1	2169.2
72.5°	388.1	396.4	446.0	648.2	1025.7	1906.0	2957.2	3027.4	2896.2	2421.4	1713.7
75°	215.9	217.1	252.2	319.6	523.3	1066.7	2222.8	2242.9	2292.9	1948.9	1267.2
77.5°	164.7	167.1	178.1	206.5	284.9	494.5	1345.2	1446.1	1615.9	1374.0	723.1
80°	133.6	135.9	145.4	162.3	189.5	234.5	624.9	679.3	864.9	610.0	282.1
82.5°	104.0	102.4	114.7	125.7	137.9	138.7	256.5	283.7	352.3	262.4	122.2
85°	77.2	77.2	87.1	84.7	89.1	81.2	113.1	124.9	141.1	111.5	56.7
87.5°	30.7	33.9	57.1	51.2	39.8	31.9	41.8	44.1	48.9	43.7	23.6
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°	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4	948.4
2.5°	950.0	951.2	948.4	946.5	945.7	944.5	943.3	943.7	945.3	946.9	946.5
5°	954.8	955.1	950.4	948.1	946.5	944.9	944.9	946.1	949.2	951.6	951.6
7.5°	966.6	966.6	959.9	955.5	953.2	950.4	949.6	950.0	952.4	955.5	955.9
10°	985.1	983.5	974.8	968.1	963.8	957.1	951.2	948.1	949.2	951.2	951.2
12.5°	1007.6	1003.2	992.2	983.1	972.5	959.9	947.7	941.4	941.0	942.9	942.1
15°	1031.6	1026.9	1011.5	994.9	976.4	957.9	943.3	934.3	927.2	925.2	929.5
17.5°	1059.6	1049.7	1028.4	1005.6	978.0	954.0	931.1	912.6	900.0	896.4	897.6
20°	1093.5	1080.4	1051.7	1015.8	976.8	939.8	904.3	879.5	859.0	852.7	853.5
22.5°	1140.3	1117.9	1075.7	1020.9	967.0	913.0	863.7	831.4	806.6	796.7	802.7
25°	1193.5	1169.1	1098.6	1019.8	941.4	870.0	815.7	773.5	751.0	736.5	739.6
27.5°	1266.8	1223.5	1123.0	1009.1	904.7	817.6	754.6	714.8	694.3	686.8	690.4
30°	1360.6	1294.0	1149.4	980.4	846.8	751.4	693.1	667.1	654.9	645.4	648.6
32.5°	1428.4	1343.7	1155.3	931.9	784.1	691.1	651.3	632.0	618.6	609.6	611.5
35°	1476.8	1385.8	1152.6	872.4	718.7	641.5	618.2	602.5	580.8	561.1	557.6
37.5°	1541.9	1438.6	1132.5	807.4	654.1	608.0	591.4	562.3	531.2	504.8	503.6
40°	1641.6	1500.5	1089.5	730.9	598.9	583.2	563.1	525.3	491.8	470.5	468.9
42.5°	1744.4	1557.6	1031.2	650.6	553.6	557.2	532.7	495.3	474.8	461.0	459.4
45°	1870.1	1619.5	968.1	580.8	520.1	532.7	506.3	484.7	472.5	463.4	461.0
47.5°	2006.0	1682.9	897.2	518.2	491.8	510.3	495.3	485.5	478.8	472.5	469.7
50°	2152.6	1753.9	830.6	467.7	466.1	487.0	494.1	490.6	486.6	484.7	482.3
52.5°	2313.4	1826.4	774.7	432.3	443.7	470.5	494.5	497.3	497.3	496.1	494.5
55°	2422.1	1876.8	717.9	403.5	420.8	457.1	493.7	504.4	508.3	506.7	505.2
57.5°	2502.5	1904.4	646.6	378.7	401.5	444.1	489.4	505.2	509.1	511.1	510.3
60°	2519.1	1878.8	553.2	352.7	380.6	425.2	473.6	493.3	498.5	510.7	511.9
62.5°	2444.6	1800.0	460.2	327.1	355.0	396.4	452.4	479.9	490.2	509.1	511.1
64°	2353.2	1711.7	408.6	310.9	338.5	380.2	441.7	476.4	489.8	515.0	516.6
65°	2286.2	1647.5	376.3	300.7	327.8	369.6	435.8	477.6	493.3	524.1	526.4
67.5°	2039.5	1426.4	311.3	276.6	302.6	351.5	437.0	487.4	492.5	527.6	527.2
70°	1687.7	1135.6	260.9	254.5	278.2	336.9	432.3	471.7	472.1	495.3	489.8
72.5°	1263.7	839.3	226.2	231.7	251.0	302.2	408.2	450.4	443.7	446.8	441.3
75°	868.1	555.2	194.7	207.3	222.6	267.2	374.3	409.0	398.4	394.4	390.5
77.5°	463.4	307.0	161.9	183.2	193.5	230.9	326.7	360.1	349.1	333.7	328.6
80°	187.6	144.6	130.4	151.7	157.6	186.0	271.9	292.8	284.5	257.7	249.0
82.5°	94.2	86.7	102.4	119.4	119.8	132.8	202.1	221.8	203.3	170.6	163.1
85°	49.3	50.8	70.5	83.9	74.1	71.7	121.4	134.4	123.3	107.2	96.5
87.5°	17.7	20.5	37.0	36.6	26.0	13.8	26.8	13.0	7.1	4.3	5.5
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)