

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: P453025

Luminaire Tested: **GALN-SA4A-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453025
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-SA4A-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16338 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

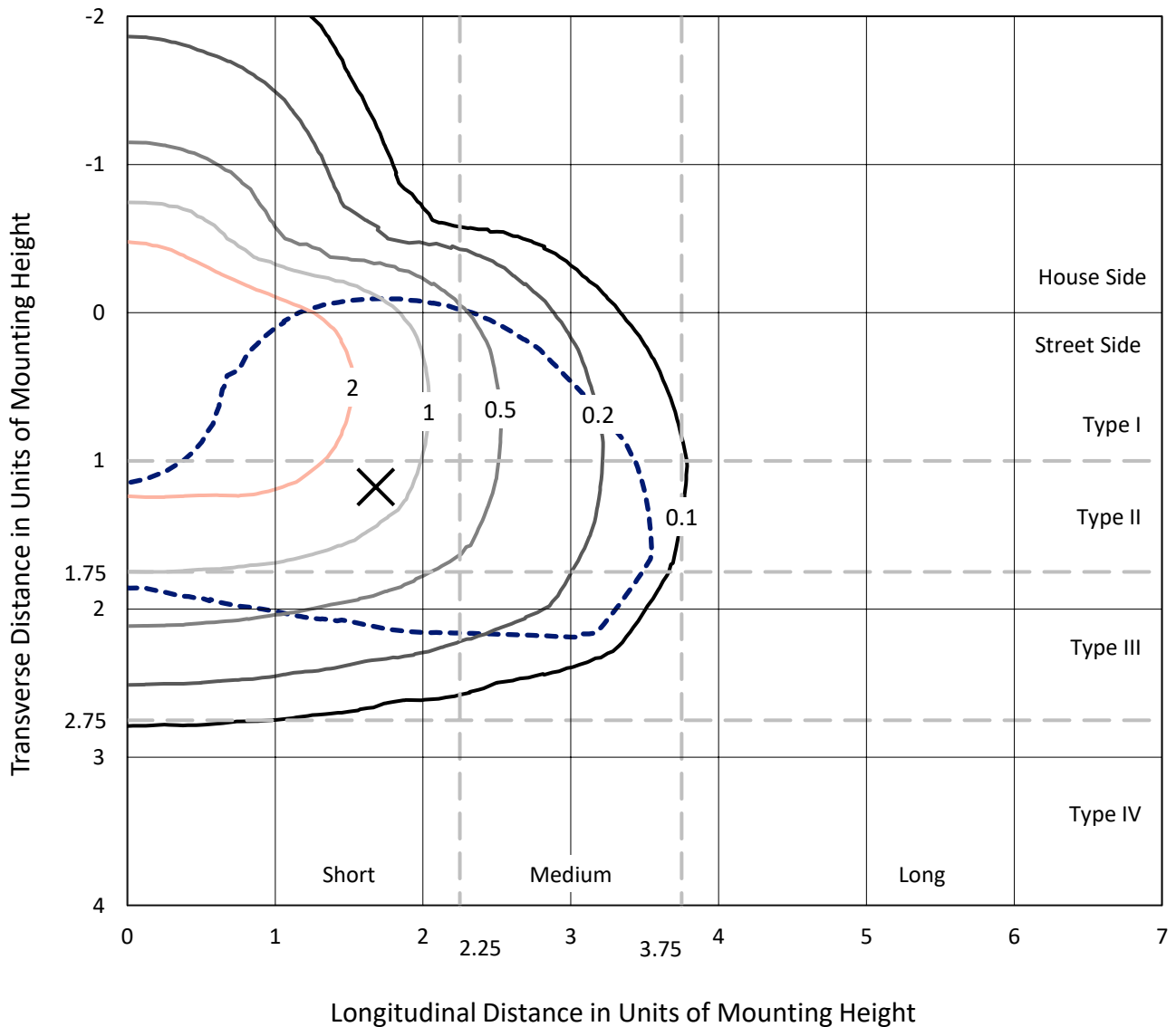
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

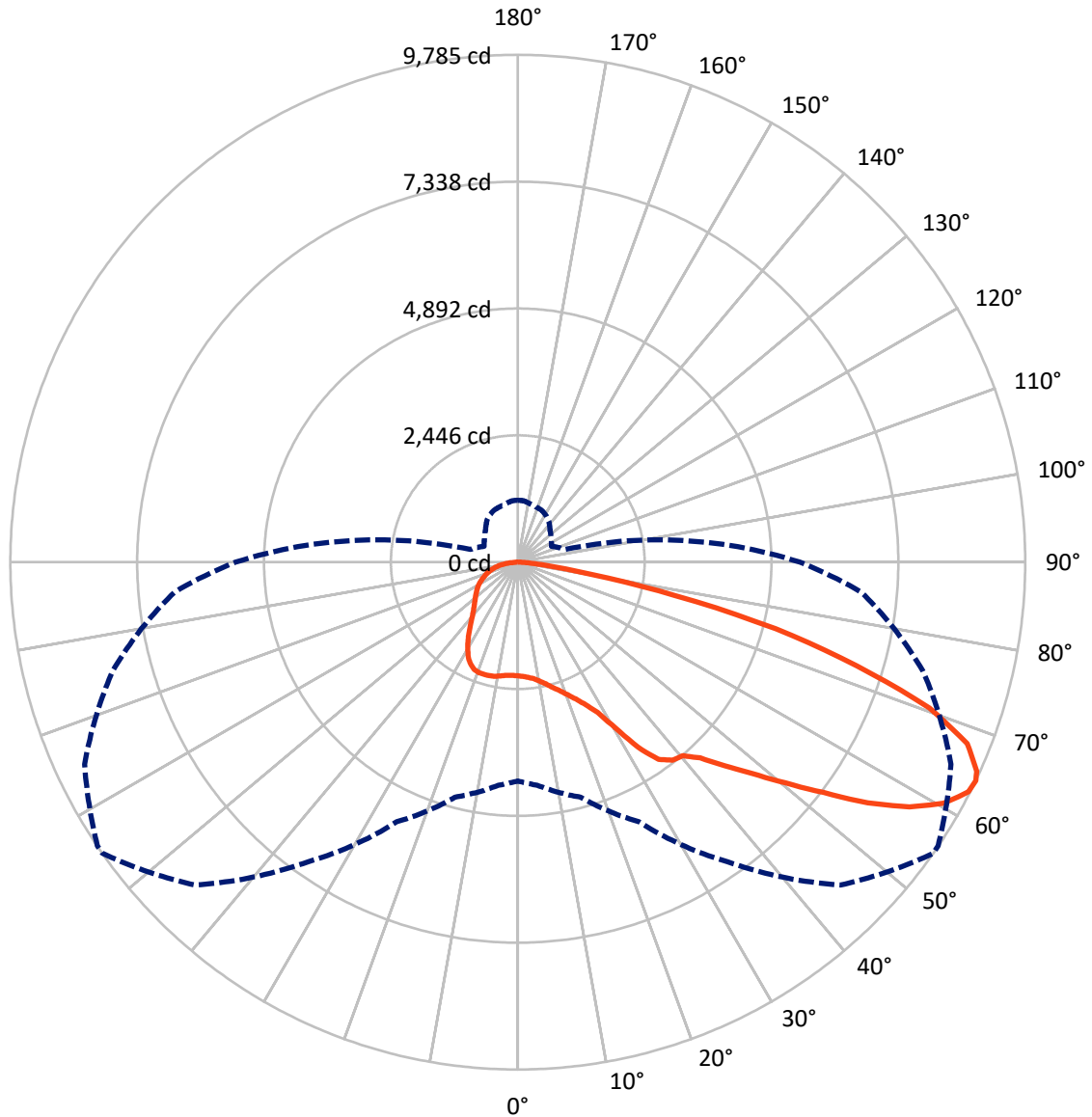
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	3968.8	0.0	3968.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	12369.2	0.0	12369.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	16338.0	0.0	16338.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	1.3
10°-20°	672.8	4.1
20°-30°	1197.8	7.3
30°-40°	1842.9	11.3
40°-50°	2612.5	16.0
50°-60°	3781.5	23.1
60°-70°	3913.4	24.0
70°-80°	1832.7	11.2
80°-90°	271.3	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°	16338.0	100.0
0°-180°	16338.0	100.0



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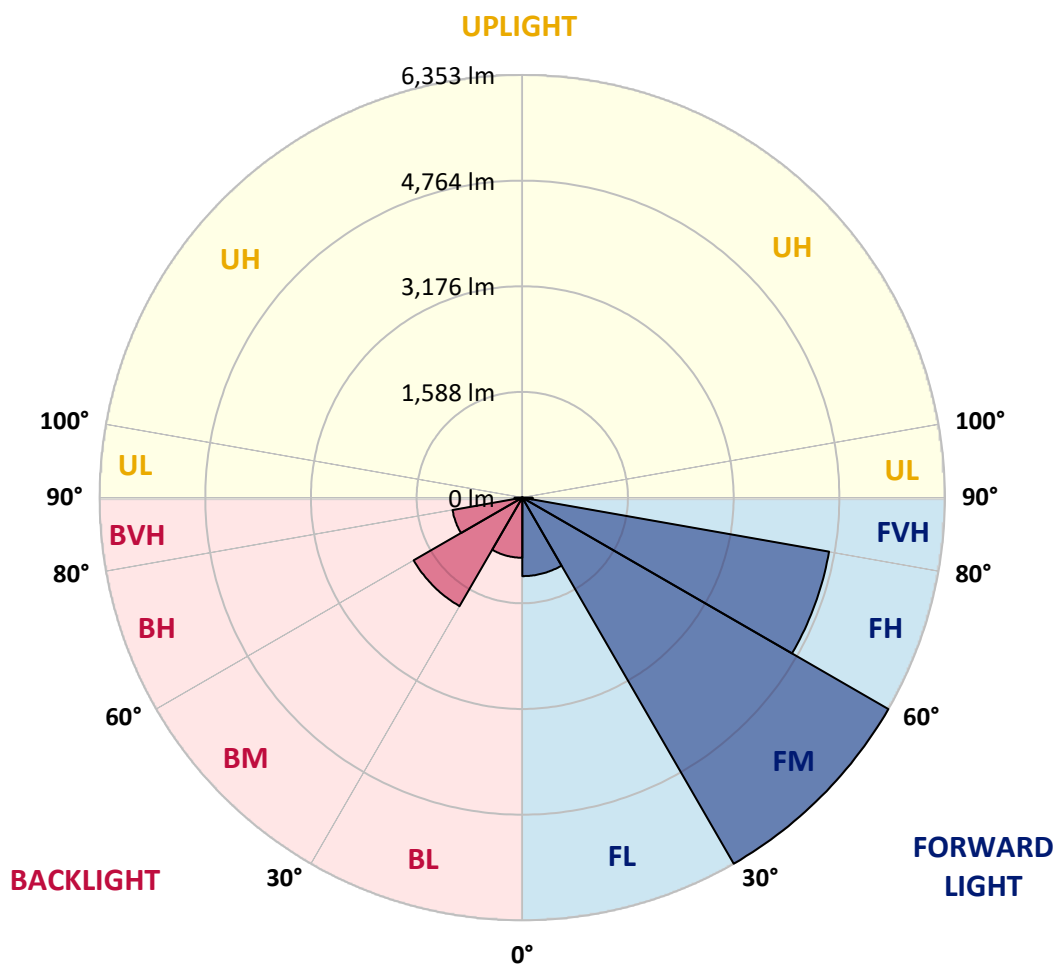
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1179.9	7.2			
FM	(30°-60°)	6352.7	38.9			
FH	(60°-80°)	4681.3	28.7			G2/5000
FVH	(80°-90°)	155.3	1.0			G2/225
BL	(0°-30°)	903.9	5.5	B2/1000		
BM	(30°-60°)	1884.2	11.5	B2/2500		
BH	(60°-80°)	1064.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	116.0	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1
2.5°	2216.7	2215.7	2218.5	2215.7	2217.6	2211.2	2208.5	2210.3	2207.5	2203.0	2194.8
5°	2244.0	2243.1	2244.0	2240.3	2242.2	2238.5	2232.1	2234.0	2229.4	2219.4	2207.5
7.5°	2290.4	2286.8	2286.8	2285.9	2282.2	2276.8	2272.2	2270.4	2265.8	2253.1	2234.9
10°	2350.5	2350.5	2351.4	2344.2	2348.7	2338.7	2334.1	2333.2	2317.7	2301.4	2275.9
12.5°	2429.8	2434.3	2431.6	2427.9	2426.1	2422.5	2407.0	2410.6	2393.3	2365.1	2334.1
15°	2528.1	2535.4	2530.8	2529.0	2524.5	2510.8	2504.4	2501.7	2478.9	2438.0	2397.0
17.5°	2658.3	2649.2	2645.6	2641.0	2621.9	2611.9	2601.0	2599.2	2579.1	2530.8	2467.1
20°	2772.2	2784.9	2777.6	2773.1	2754.0	2734.8	2726.7	2723.9	2706.6	2653.8	2551.8
22.5°	2907.9	2910.6	2913.3	2902.4	2893.3	2878.7	2864.2	2859.6	2853.2	2798.6	2673.8
25°	3052.7	3063.6	3054.5	3043.6	3032.6	3031.7	3045.4	3043.6	3040.8	2988.0	2835.9
27.5°	3288.6	3298.6	3301.3	3289.5	3247.6	3251.2	3282.2	3292.2	3334.1	3246.7	3044.5
30°	3421.5	3431.5	3454.3	3498.9	3565.4	3623.7	3698.4	3721.1	3761.2	3596.4	3292.2
32.5°	3503.5	3507.1	3548.1	3631.0	3830.4	4048.1	4251.2	4259.4	4284.9	4053.5	3519.0
35°	3632.8	3635.5	3668.3	3759.4	3993.4	4355.9	4670.1	4680.1	4659.2	4195.6	3624.6
37.5°	3792.2	3799.5	3820.4	3896.0	4175.6	4613.6	4844.0	4836.8	4651.0	4308.5	3811.3
40°	4024.4	4024.4	3999.8	4101.8	4367.7	4761.2	4905.1	4892.3	4843.1	4635.5	4095.4
42.5°	4229.3	4225.7	4284.0	4353.2	4608.2	4988.8	5161.0	5181.9	5263.0	5046.2	4418.7
45°	4496.1	4512.5	4545.3	4671.0	5017.1	5377.7	5599.9	5620.0	5734.7	5529.8	4796.7
47.5°	4765.7	4771.2	4874.1	5041.7	5523.4	5905.0	6087.2	6119.9	6224.7	6095.3	5203.8
50°	4957.0	5008.9	5173.7	5437.8	6045.3	6548.0	6690.0	6729.2	6914.1	6711.0	5678.2
52.5°	5159.1	5210.1	5411.4	5813.9	6644.5	7205.5	7380.4	7406.8	7598.9	7333.9	6163.7
55°	5332.2	5379.5	5608.1	6147.3	7121.7	7876.7	8193.6	8162.6	8254.6	7813.8	6537.9
57.5°	5360.4	5398.7	5686.4	6360.4	7480.5	8452.3	8906.7	8924.9	8818.4	8172.7	6846.7
60°	5141.8	5220.2	5550.7	6337.6	7641.7	8853.0	9438.5	9451.3	9148.9	8356.6	6969.6
62.5°	4754.8	4746.6	5146.4	5971.5	7415.9	8944.0	9751.8	9738.2	9278.3	8268.3	6850.3
64°	4220.2	4318.6	4692.0	5521.6	7051.6	8803.8	9784.6	9777.3	9216.3	8084.3	6647.2
65°	3894.2	3888.7	4257.5	5153.7	6689.1	8592.5	9726.3	9716.3	9087.0	7919.5	6489.7
67.5°	2811.3	2824.1	3188.4	3977.0	5437.8	7766.5	9346.6	9309.2	8577.0	7373.1	5890.4
70°	1703.0	1710.3	1996.3	2638.3	3903.3	6278.4	8424.9	8426.8	7796.5	6557.1	5013.4
72.5°	897.0	916.2	1030.9	1498.1	2370.6	4405.1	6834.8	6996.9	6693.7	5596.3	3960.7
75°	499.1	501.8	582.9	738.6	1209.4	2465.3	5137.3	5183.7	5299.4	4504.3	2928.8
77.5°	380.7	386.1	411.6	477.2	658.4	1142.9	3109.1	3342.3	3734.8	3175.6	1671.1
80°	308.7	314.2	336.1	375.2	438.0	541.9	1444.4	1570.1	1999.0	1409.8	652.1
82.5°	240.4	236.8	265.0	290.5	318.7	320.6	592.9	655.7	814.2	606.5	282.3
85°	178.5	178.5	201.3	195.8	205.8	187.6	261.4	288.7	326.0	257.7	131.1
87.5°	71.0	78.3	132.1	118.4	92.0	73.8	96.5	102.0	112.9	101.1	54.6
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°	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1
2.5°	2195.7	2198.4	2192.1	2187.5	2185.7	2183.0	2180.2	2181.1	2184.8	2188.4	2187.5
5°	2206.6	2207.5	2196.6	2191.2	2187.5	2183.9	2183.9	2186.6	2193.9	2199.4	2199.4
7.5°	2234.0	2234.0	2218.5	2208.5	2203.0	2196.6	2194.8	2195.7	2201.2	2208.5	2209.4
10°	2276.8	2273.1	2253.1	2237.6	2227.6	2212.1	2198.4	2191.2	2193.9	2198.4	2198.4
12.5°	2328.7	2318.7	2293.2	2272.2	2247.6	2218.5	2190.2	2175.7	2174.8	2179.3	2177.5
15°	2384.2	2373.3	2337.8	2299.5	2256.7	2213.9	2180.2	2159.3	2142.9	2138.3	2148.4
17.5°	2448.9	2426.1	2376.9	2324.1	2260.4	2204.8	2152.0	2109.2	2080.0	2071.9	2074.6
20°	2527.2	2497.2	2430.7	2347.8	2257.6	2172.0	2090.1	2032.7	1985.3	1970.8	1972.6
22.5°	2635.6	2583.7	2486.2	2359.6	2234.9	2110.1	1996.3	1921.6	1864.2	1841.4	1855.1
25°	2758.5	2702.1	2539.0	2356.9	2175.7	2010.8	1885.2	1787.7	1735.8	1702.1	1709.4
27.5°	2927.9	2827.7	2595.5	2332.3	2091.0	1889.7	1744.0	1652.0	1604.7	1587.4	1595.6
30°	3144.7	2990.8	2656.5	2265.8	1957.1	1736.7	1601.9	1541.8	1513.6	1491.7	1499.0
32.5°	3301.3	3105.5	2670.2	2153.8	1812.3	1597.4	1505.4	1460.8	1429.8	1408.9	1413.4
35°	3413.3	3202.9	2663.8	2016.3	1661.1	1482.6	1428.9	1392.5	1342.4	1296.8	1288.6
37.5°	3563.6	3325.0	2617.4	1866.0	1511.8	1405.2	1367.0	1299.6	1227.6	1166.6	1163.9
40°	3794.0	3468.0	2518.1	1689.4	1384.3	1347.8	1301.4	1214.0	1136.6	1087.4	1083.7
42.5°	4031.7	3600.0	2383.3	1503.6	1279.5	1287.7	1231.3	1144.8	1097.4	1065.5	1061.9
45°	4322.2	3743.0	2237.6	1342.4	1202.1	1231.3	1170.3	1120.2	1091.9	1071.0	1065.5
47.5°	4636.4	3889.6	2073.7	1197.6	1136.6	1179.4	1144.8	1122.0	1106.5	1091.9	1085.6
50°	4975.2	4053.5	1919.8	1081.0	1077.4	1125.6	1142.0	1133.8	1124.7	1120.2	1114.7
52.5°	5346.7	4221.1	1790.4	999.0	1025.5	1087.4	1142.9	1149.3	1149.3	1146.6	1142.9
55°	5598.1	4337.7	1659.3	932.6	972.6	1056.4	1141.1	1165.7	1174.8	1171.2	1167.5
57.5°	5783.9	4401.4	1494.5	875.2	928.0	1026.4	1131.1	1167.5	1176.6	1181.2	1179.4
60°	5822.1	4342.2	1278.6	815.1	879.7	982.7	1094.7	1140.2	1152.0	1180.3	1183.0
62.5°	5650.0	4160.1	1063.7	755.9	820.5	916.2	1045.5	1109.2	1132.9	1176.6	1181.2
64°	5438.7	3956.1	944.4	718.5	782.3	878.8	1020.9	1101.0	1132.0	1190.3	1193.9
65°	5283.9	3807.7	869.7	694.9	757.7	854.2	1007.2	1103.8	1140.2	1211.2	1216.7
67.5°	4713.8	3296.8	719.5	639.3	699.4	812.3	1010.0	1126.5	1138.4	1219.4	1218.5
70°	3900.5	2624.7	602.9	588.3	643.0	778.7	999.0	1090.1	1091.0	1144.8	1132.0
72.5°	2920.6	1939.8	522.7	535.5	580.1	698.5	943.5	1040.9	1025.5	1032.7	1020.0
75°	2006.3	1283.2	449.9	479.0	514.5	617.5	865.2	945.3	920.7	911.6	902.5
77.5°	1071.0	709.4	374.3	423.5	447.2	533.7	755.0	832.4	806.9	771.4	759.5
80°	433.5	334.2	301.4	350.6	364.3	429.9	628.4	676.7	657.5	595.6	575.6
82.5°	217.7	200.4	236.8	275.9	276.9	306.9	467.2	512.7	469.9	394.3	377.0
85°	113.8	117.5	163.0	194.0	171.2	165.7	280.5	310.6	285.1	247.7	223.1
87.5°	41.0	47.4	85.6	84.7	60.1	31.9	61.9	30.1	16.4	10.0	12.7
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)