

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: P450730

Luminaire Tested: **GALN-SA1C-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7154 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

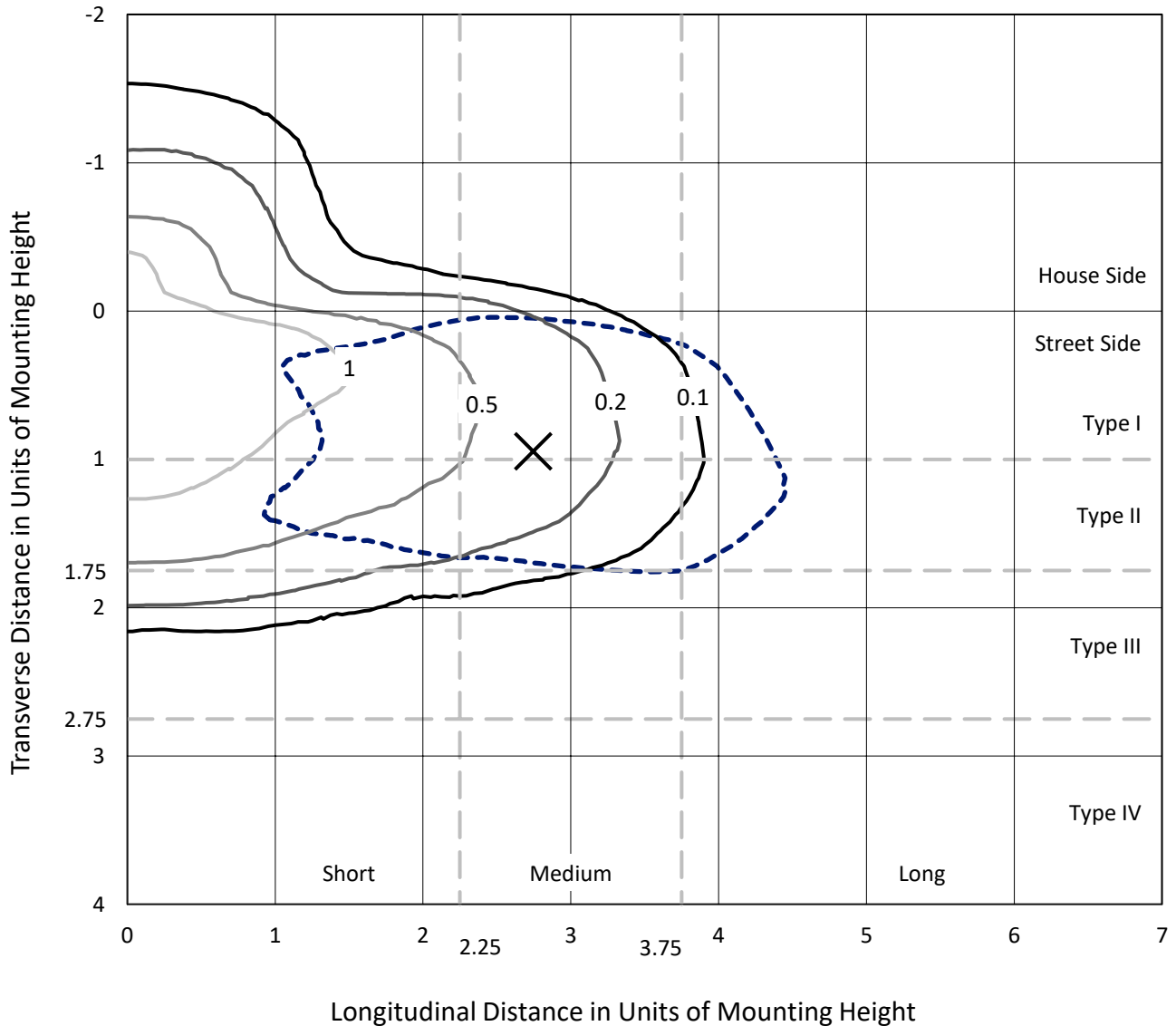
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

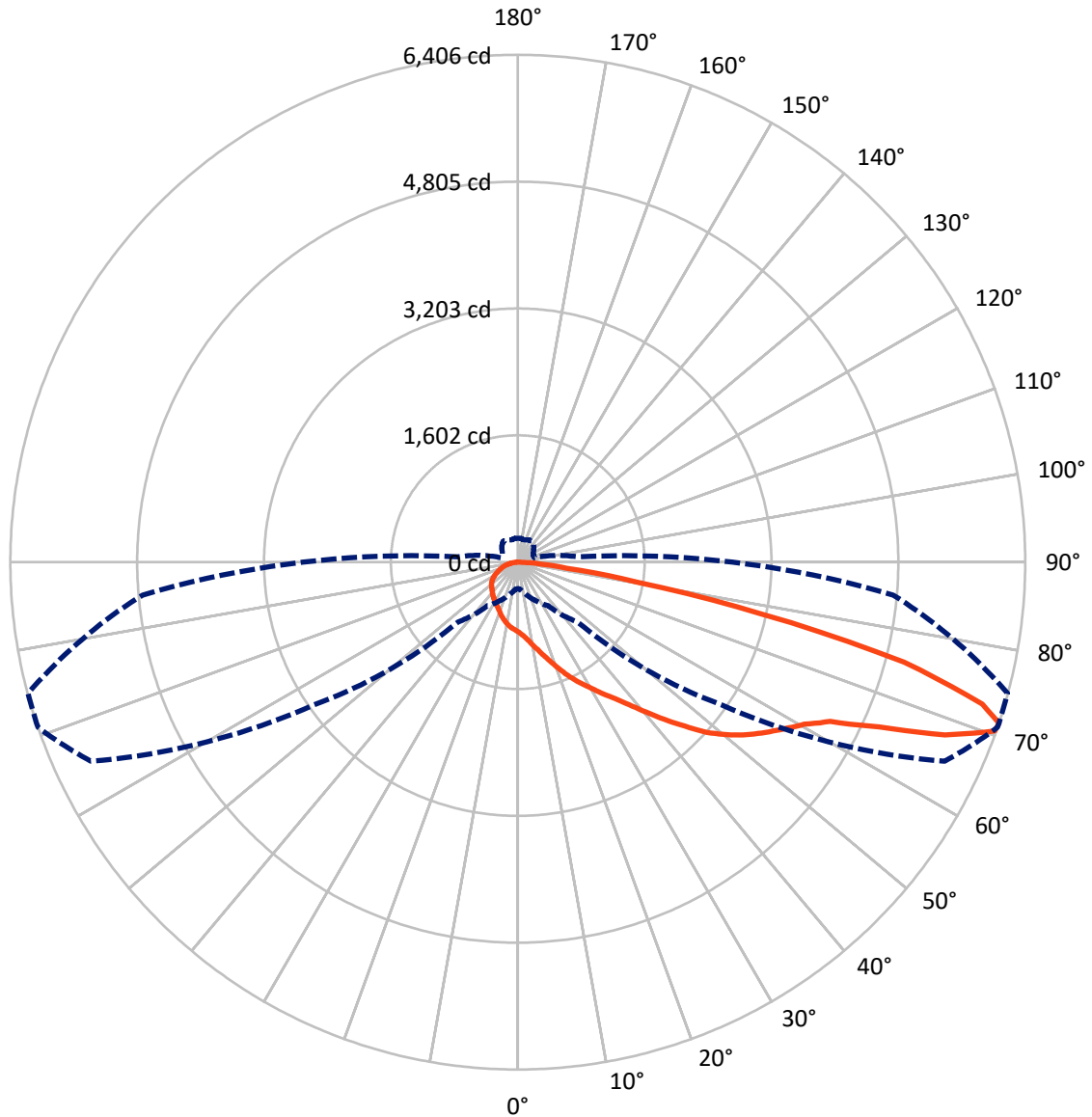
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1286.6	0.0	1286.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	5867.4	0.0	5867.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	7154.0	0.0	7154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.2
10°-20°	286.4	4.0
20°-30°	500.5	7.0
30°-40°	744.5	10.4
40°-50°	1096.9	15.3
50°-60°	1535.7	21.5
60°-70°	1717.6	24.0
70°-80°	1049.2	14.7
80°-90°	135.0	1.9
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°	7154.0	100.0
0°-180°	7154.0	100.0

Coefficient of Utilization



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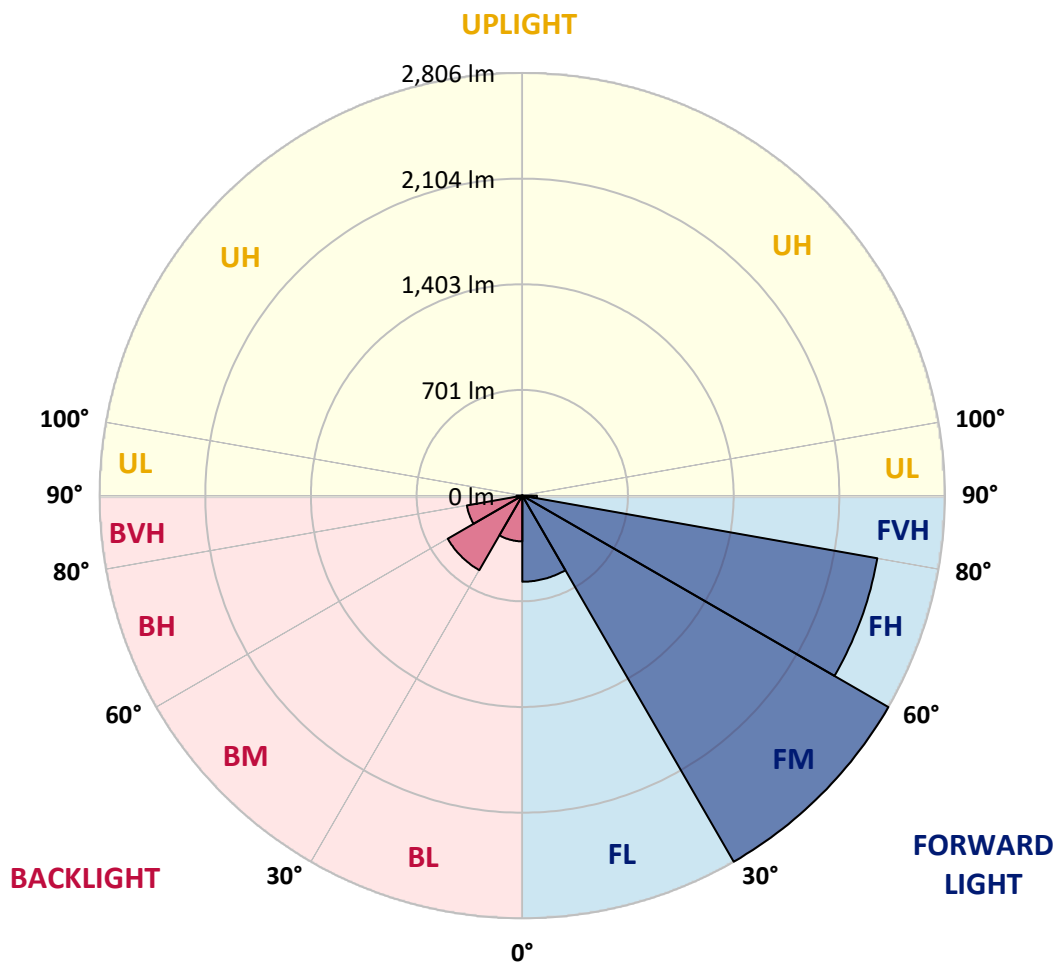
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	571.6	8.0			
FM	(30°-60°)	2805.7	39.2			
FH	(60°-80°)	2393.0	33.4			G2/5000
FVH	(80°-90°)	97.1	1.4			G1/100
BL	(0°-30°)	303.5	4.2	B1/500		
BM	(30°-60°)	571.4	8.0	B1/1000		
BH	(60°-80°)	373.8	5.2	B1/500		G1/500
BVH	(80°-90°)	37.9	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0
2.5°	974.7	970.0	970.4	963.7	955.1	945.6	932.3	920.5	911.0	905.5	889.4
5°	1080.1	1075.4	1069.5	1055.0	1048.7	1025.5	996.0	969.2	948.8	937.4	905.1
7.5°	1165.4	1164.3	1162.7	1154.4	1138.3	1106.1	1080.9	1034.5	1004.2	982.6	927.6
10°	1218.1	1220.1	1221.3	1222.8	1216.2	1199.3	1164.7	1106.1	1067.5	1040.0	956.7
12.5°	1244.9	1246.8	1253.5	1268.1	1277.1	1275.1	1246.8	1189.4	1136.3	1100.2	987.7
15°	1261.4	1264.5	1276.3	1295.6	1325.9	1345.1	1331.4	1278.3	1220.1	1177.2	1024.7
17.5°	1279.5	1283.0	1296.0	1323.5	1363.2	1404.9	1419.8	1374.2	1310.9	1259.8	1066.0
20°	1289.7	1294.4	1312.9	1349.1	1395.5	1456.0	1505.6	1481.6	1412.4	1355.7	1113.5
22.5°	1306.2	1310.1	1325.9	1364.4	1419.8	1495.7	1591.3	1586.2	1525.2	1452.1	1165.8
25°	1351.0	1357.3	1365.2	1388.4	1441.9	1536.2	1662.4	1697.8	1634.5	1552.7	1213.8
27.5°	1435.6	1440.7	1440.3	1443.4	1473.7	1571.2	1724.2	1808.3	1743.0	1654.6	1260.2
30°	1531.9	1533.9	1535.4	1528.4	1535.0	1607.0	1780.8	1917.6	1852.4	1759.2	1300.7
32.5°	1649.1	1653.0	1639.6	1621.6	1616.0	1660.1	1827.6	2026.9	1981.7	1865.3	1340.8
35°	1787.5	1797.7	1770.6	1738.7	1716.3	1736.4	1890.5	2138.6	2114.2	2001.0	1393.9
37.5°	1945.5	1958.1	1933.0	1870.4	1838.6	1844.1	1972.7	2276.6	2281.7	2155.5	1472.9
40°	2074.9	2091.4	2092.2	2003.7	1955.4	1961.7	2076.9	2425.2	2483.8	2346.6	1566.1
42.5°	2160.2	2176.4	2193.3	2141.4	2090.6	2126.4	2198.4	2586.5	2711.1	2578.6	1696.3
45°	2253.8	2268.4	2277.8	2254.2	2225.9	2318.7	2345.0	2757.9	2953.3	2837.7	1838.6
47.5°	2362.3	2378.5	2387.5	2365.1	2354.5	2487.4	2503.1	2917.9	3212.0	3089.4	1995.9
50°	2507.0	2519.2	2514.5	2500.3	2498.0	2616.7	2654.9	3067.7	3425.5	3360.3	2159.1
52.5°	2687.1	2701.7	2706.8	2686.7	2677.7	2709.1	2777.2	3204.2	3619.8	3593.0	2333.2
55°	2796.0	2819.2	2897.1	2928.5	2950.2	2828.7	2908.9	3354.8	3794.0	3838.4	2520.4
57.5°	2656.4	2686.3	2860.5	3017.8	3221.1	3127.5	3095.7	3512.0	3968.2	4076.3	2744.5
60°	2315.9	2322.6	2547.1	2836.9	3245.9	3511.7	3485.3	3762.1	4156.9	4316.1	3039.8
62.5°	1606.6	1620.8	1886.2	2348.6	2939.9	3650.1	4148.2	4193.9	4427.4	4675.1	3472.7
65°	828.5	810.0	1051.8	1476.1	2216.5	3321.3	4685.4	4987.7	5014.1	5236.6	4082.2
67.5°	510.0	518.2	631.5	861.9	1310.5	2413.8	4629.1	5957.7	5818.9	5925.9	4648.0
70°	383.0	393.2	471.1	589.8	799.0	1380.1	3722.8	6192.9	6386.7	6359.2	4820.2
71°	333.0	343.7	424.7	536.7	671.2	1065.2	3136.5	5946.7	6406.4	6401.7	4755.3
72.5°	283.9	290.6	353.9	454.5	565.8	746.7	2356.4	5333.3	6133.1	6290.0	4523.7
75°	222.9	228.1	256.4	346.8	445.5	458.5	1264.5	3998.4	5037.3	5336.1	3766.1
77.5°	181.7	185.2	199.7	257.5	343.7	324.8	663.3	2602.6	3155.8	3456.6	2218.4
80°	144.3	148.2	156.9	174.6	257.5	231.6	316.5	1318.8	1524.4	1521.3	885.5
82.5°	112.1	113.2	123.5	128.2	176.2	164.4	171.4	558.3	618.5	638.9	319.7
85°	70.8	74.3	109.3	98.3	105.4	96.3	84.5	221.8	273.3	269.3	127.8
87.5°	21.6	22.8	37.0	41.7	46.8	42.1	31.1	65.3	79.8	86.5	31.8
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°	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0	878.0
2.5°	883.1	878.8	863.5	850.9	839.1	826.1	815.1	812.0	809.2	808.0	807.6
5°	891.4	878.4	848.1	823.4	803.7	785.6	774.2	769.1	764.0	764.0	765.6
7.5°	903.2	879.6	832.8	795.8	771.1	754.2	745.9	745.1	746.3	747.5	747.9
10°	916.2	878.8	810.4	764.4	742.4	734.5	734.9	741.6	747.9	752.6	753.4
12.5°	928.7	874.1	784.0	734.9	720.7	722.3	733.3	748.3	760.4	767.1	767.5
15°	942.9	866.6	752.2	707.0	702.3	714.4	734.9	757.7	776.2	787.2	788.4
17.5°	954.7	854.0	718.8	679.8	685.7	708.2	736.5	766.0	788.4	802.1	804.5
20°	968.1	837.9	684.2	653.9	670.8	701.1	733.3	765.2	788.4	801.7	804.9
22.5°	978.7	815.1	651.1	632.7	657.4	692.4	722.7	748.3	767.1	774.2	778.9
25°	983.0	786.4	620.1	615.4	646.8	678.3	698.7	713.3	719.2	718.4	720.3
27.5°	980.6	753.4	593.3	601.6	633.4	656.2	666.5	665.3	654.7	644.8	649.6
30°	970.8	714.0	570.9	587.4	616.1	628.7	627.2	611.8	591.8	573.3	574.5
32.5°	953.1	671.6	550.1	571.3	591.8	597.3	586.7	566.6	537.9	513.9	510.4
35°	938.2	631.1	531.6	552.8	567.4	564.6	554.4	528.5	502.5	481.3	477.7
37.5°	935.8	596.5	513.9	532.0	540.3	536.3	523.7	501.7	492.3	476.2	474.2
40°	948.4	572.1	495.8	510.0	513.9	510.8	497.0	484.4	493.1	489.1	489.1
42.5°	982.6	559.1	479.7	488.0	491.1	493.5	483.6	473.0	483.6	465.5	459.6
45°	1036.9	559.5	465.2	466.3	475.8	484.0	477.3	461.6	456.1	419.9	412.9
47.5°	1116.7	572.9	453.4	445.9	462.8	476.6	467.1	444.3	419.9	396.0	391.6
50°	1209.9	596.9	442.7	424.7	445.5	467.1	460.0	433.3	408.1	393.6	390.8
52.5°	1313.3	627.2	429.8	401.1	424.3	462.8	461.6	431.7	397.1	387.3	384.9
55°	1441.1	657.0	413.6	373.5	405.4	459.3	457.3	418.8	394.8	387.7	386.9
57.5°	1589.7	700.3	390.4	345.6	383.8	444.7	440.4	410.9	386.9	381.8	381.4
60°	1829.2	767.5	357.4	320.1	361.7	419.1	424.7	397.5	374.3	373.1	372.8
62.5°	2144.1	861.9	323.2	293.7	336.2	386.1	401.8	379.4	361.0	366.9	367.6
65°	2579.0	941.3	287.8	271.3	307.9	354.3	380.2	362.5	346.0	357.4	357.4
67.5°	2862.5	942.9	255.6	248.1	279.2	327.5	357.4	342.5	326.7	346.0	346.8
70°	2803.5	826.1	228.8	223.7	251.3	298.8	332.3	320.5	302.4	319.7	313.4
71°	2708.4	761.2	218.2	214.3	240.2	285.1	320.5	310.6	292.5	303.9	300.4
72.5°	2556.6	661.0	200.9	201.7	223.7	267.8	303.9	293.7	275.6	281.9	280.7
75°	2161.0	577.2	171.8	175.4	192.3	238.3	270.9	263.0	244.6	244.6	243.4
77.5°	1351.0	403.4	142.7	144.7	163.2	204.1	232.8	226.1	208.4	202.5	200.9
80°	504.1	208.4	111.7	114.0	125.4	160.8	192.7	186.4	168.3	161.6	155.3
82.5°	190.7	104.6	82.2	80.2	92.4	122.7	151.0	143.5	129.4	113.2	108.5
85°	72.0	51.9	50.3	48.8	54.3	72.7	93.6	92.0	77.1	65.7	64.5
87.5°	18.9	16.9	19.7	14.5	15.3	13.8	14.2	5.9	2.8	1.2	0.8
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)