

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: P450732

Luminaire Tested: **GALN-SA1C-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
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-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7250 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

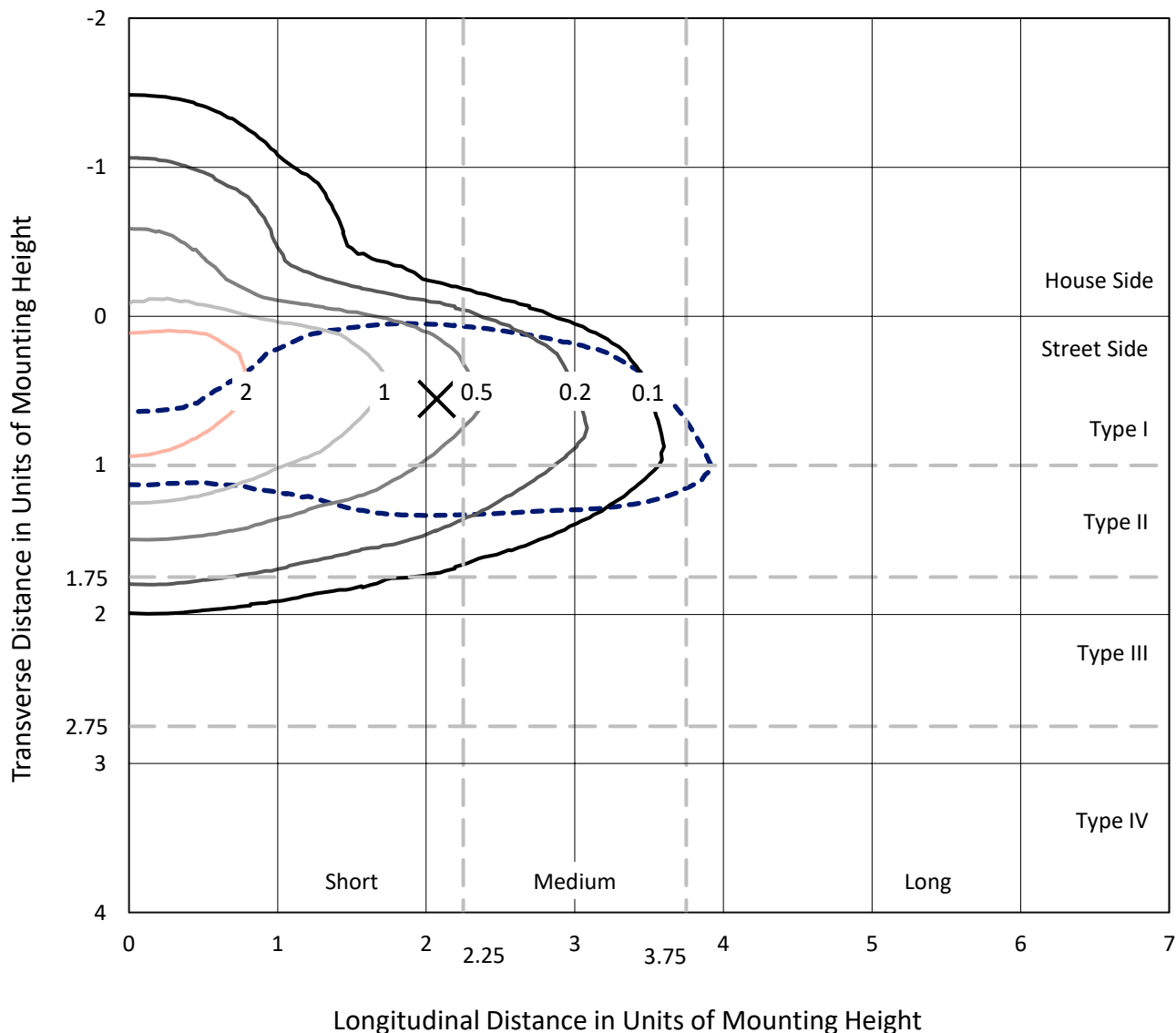
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450732
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Iso-Footcandle Lines of Horizontal Illumination

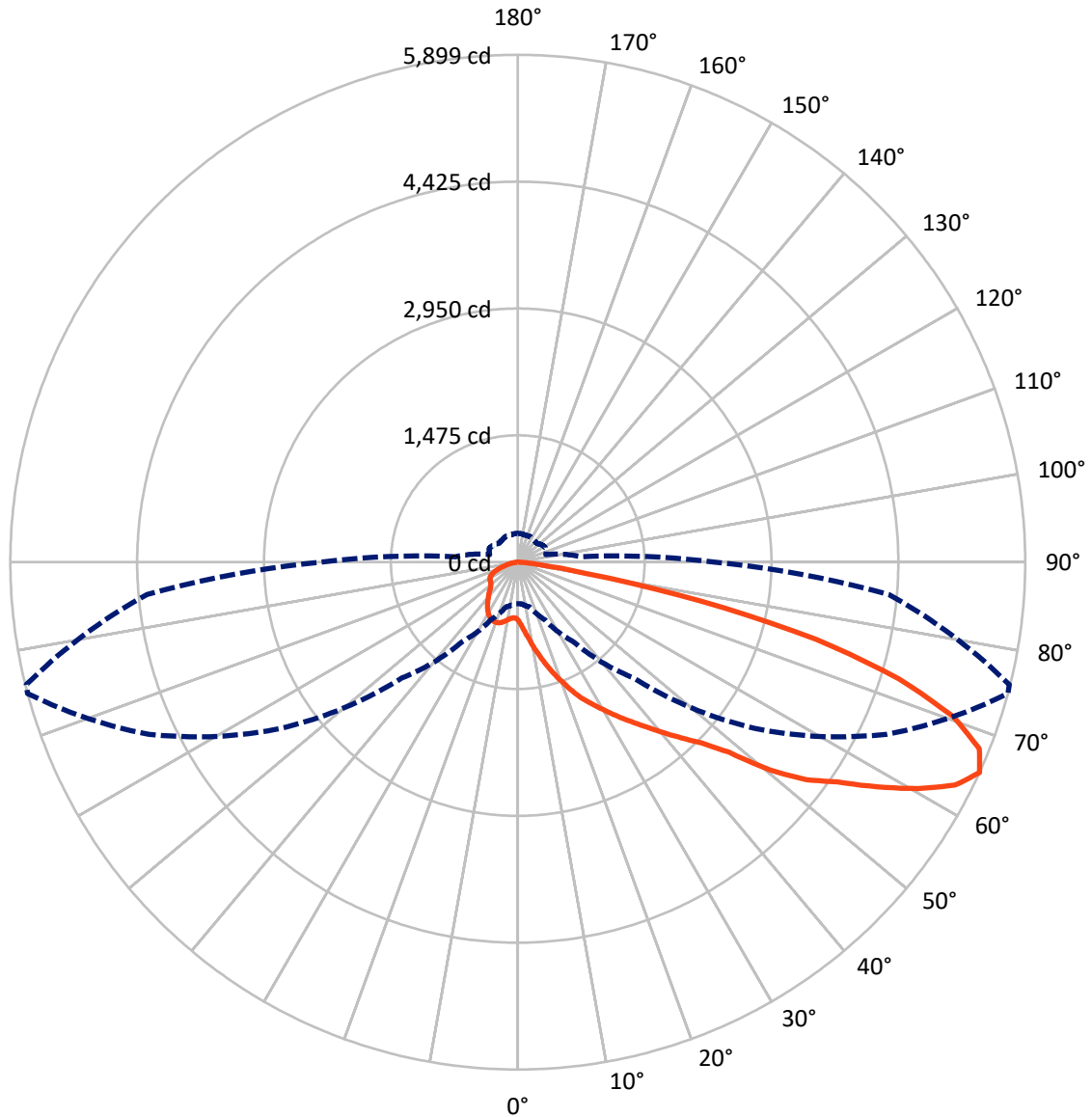
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1218.8	0.0	1218.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	6031.2	0.0	6031.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	7250.0	0.0	7250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	1.1
10°-20°	320.6	4.4
20°-30°	619.2	8.5
30°-40°	1005.8	13.9
40°-50°	1383.6	19.1
50°-60°	1633.5	22.5
60°-70°	1431.2	19.7
70°-80°	683.3	9.4
80°-90°	90.9	1.3
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°	7250.0	100.0
0°-180°	7250.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450732

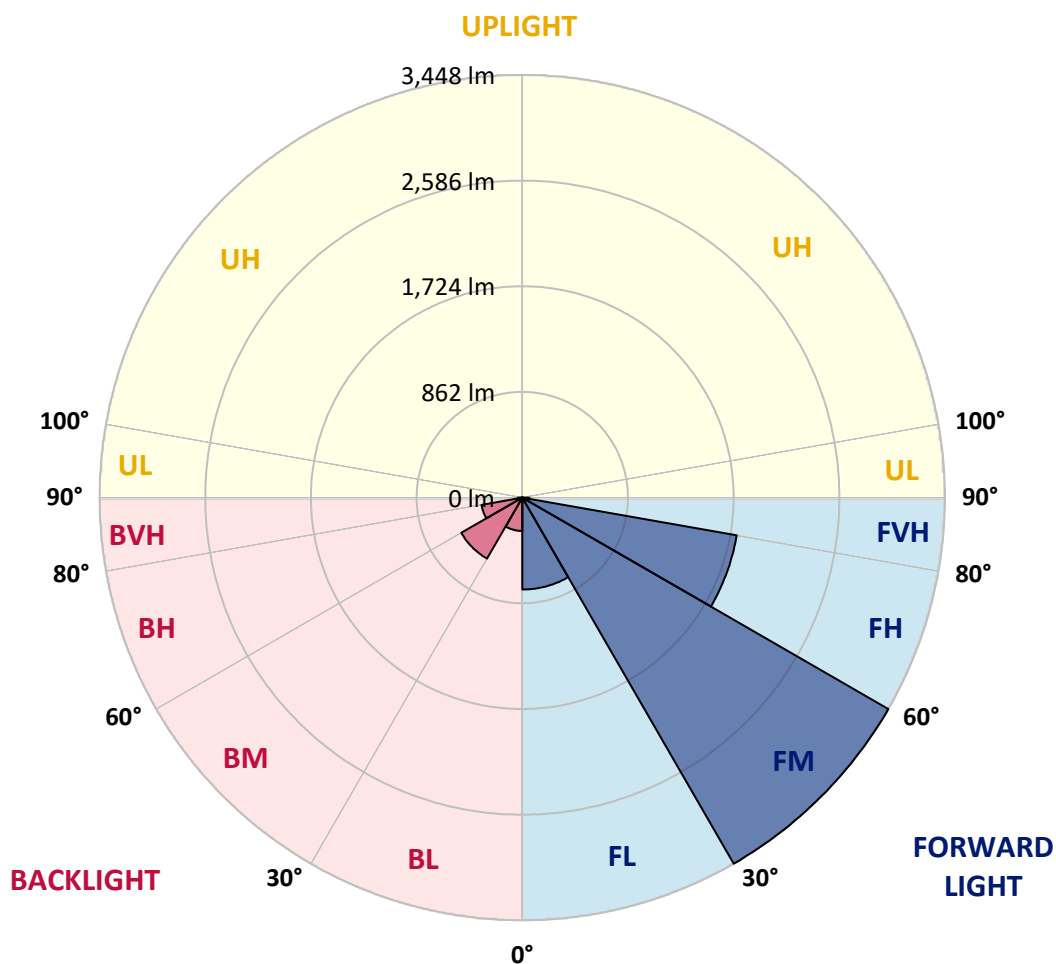
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	749.5	10.3			
FM	(30°-60°)	3448.3	47.6			
FH	(60°-80°)	1776.6	24.5			G1/1800
FVH	(80°-90°)	56.8	0.8			G1/100
BL	(0°-30°)	272.1	3.8	B1/500		
BM	(30°-60°)	574.7	7.9	B1/1000		
BH	(60°-80°)	338.0	4.7	B1/500		G1/500
BVH	(80°-90°)	34.1	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-G1

Type II Short





REPORT NUMBER: P450732

CATALOG NUMBER: GALN-SA1C-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	673.6	673.6	673.6	673.6	673.6	673.6	673.6	673.6	673.6	673.6	673.6
2.5°	895.0	889.1	882.8	865.5	847.0	826.2	796.3	767.6	729.5	728.3	700.0
5°	1143.1	1139.2	1111.3	1095.2	1052.3	995.3	946.9	871.8	802.2	793.9	738.9
7.5°	1371.2	1355.9	1345.3	1316.2	1273.7	1200.6	1107.0	1005.5	889.1	878.1	786.9
10°	1543.1	1541.5	1536.0	1510.8	1479.0	1406.2	1302.4	1156.9	999.2	977.6	845.1
12.5°	1671.7	1672.8	1672.0	1671.7	1648.8	1587.1	1474.6	1321.3	1110.5	1095.2	912.3
15°	1756.2	1768.0	1772.7	1792.4	1794.3	1753.1	1656.3	1480.1	1235.9	1213.1	984.7
17.5°	1812.0	1817.9	1840.0	1873.4	1900.5	1893.0	1806.9	1627.2	1364.1	1326.0	1059.8
20°	1865.5	1875.7	1892.7	1938.3	1986.2	2008.3	1947.7	1777.8	1491.2	1466.8	1142.7
22.5°	1976.8	1991.4	1997.3	2020.5	2061.4	2100.3	2072.8	1922.1	1630.4	1597.3	1230.8
25°	2165.2	2180.5	2164.0	2158.5	2171.9	2191.1	2185.2	2058.2	1761.7	1714.5	1314.2
27.5°	2410.5	2412.5	2380.3	2349.6	2316.6	2306.7	2288.6	2178.9	1875.7	1836.4	1398.0
30°	2674.0	2664.6	2611.1	2555.7	2499.8	2444.8	2392.9	2295.3	2002.8	1957.5	1480.1
32.5°	2918.6	2913.5	2854.1	2768.0	2673.6	2621.7	2516.7	2412.9	2138.8	2095.2	1564.7
35°	3101.9	3109.3	3044.1	2950.1	2847.0	2801.0	2668.5	2536.4	2279.6	2232.0	1656.7
37.5°	3232.0	3228.1	3170.3	3088.9	2998.4	2958.3	2845.9	2671.3	2431.0	2385.4	1757.4
40°	3278.4	3276.1	3233.2	3173.8	3116.4	3102.3	3031.5	2816.8	2604.4	2550.9	1878.5
42.5°	3248.9	3254.0	3225.7	3209.6	3199.0	3209.2	3215.9	3007.5	2793.6	2744.4	2009.8
45°	3158.5	3155.7	3151.8	3178.1	3237.9	3305.2	3398.4	3187.6	2999.2	2959.9	2186.0
47.5°	2996.9	3016.5	3026.4	3099.1	3229.7	3388.9	3608.4	3429.0	3297.7	3263.5	2454.6
50°	2770.8	2786.5	2844.7	2974.1	3168.7	3420.4	3813.6	3823.8	3795.5	3731.4	2746.4
52.5°	2417.6	2442.0	2561.9	2799.1	3043.7	3407.4	3937.9	4162.4	4199.8	4151.8	3033.8
55°	2022.4	2056.6	2183.3	2494.3	2871.4	3336.6	4023.6	4358.6	4507.7	4463.3	3310.7
57.5°	1635.5	1671.7	1801.8	2103.0	2571.0	3180.1	4079.8	4577.3	4926.9	4869.1	3655.1
60°	1225.7	1263.5	1375.2	1685.4	2143.1	2874.2	4041.7	4766.8	5345.7	5320.9	4000.0
62.5°	790.8	832.5	929.6	1186.4	1647.3	2456.2	3837.6	4871.4	5708.2	5678.4	4251.7
65°	481.7	486.4	539.9	736.5	1127.4	1901.7	3370.8	4732.6	5899.4	5890.3	4328.4
67.5°	311.4	318.9	343.3	441.2	676.0	1320.9	2695.3	4274.5	5787.7	5784.5	4169.9
70°	263.1	265.4	276.4	297.7	392.8	801.0	1892.7	3544.3	5363.4	5363.4	3788.8
72.5°	235.2	238.3	242.2	248.9	280.4	453.8	1129.4	2759.0	4630.8	4661.4	3224.9
75°	213.5	212.7	215.1	216.3	239.1	296.5	584.0	2040.5	3582.4	3521.1	2335.4
77.5°	182.9	184.0	182.9	188.0	211.2	225.7	296.5	1369.3	2171.1	2091.6	1172.2
80°	150.2	152.2	154.1	157.3	180.5	171.5	178.1	624.1	803.0	786.1	362.2
82.5°	112.9	115.6	118.8	126.2	142.0	113.3	112.5	266.6	289.8	265.4	133.3
85°	45.6	53.9	81.4	88.9	89.3	62.1	69.2	111.3	118.4	115.6	52.3
87.5°	10.6	12.6	26.3	39.7	36.6	23.2	25.6	36.2	41.3	38.1	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P450732
 CATALOG NUMBER: GALN-SA1C-740-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	673.6	673.6	673.6	673.6	673.6	673.6	673.6	673.6	673.6	673.6	673.6
2.5°	687.0	673.2	649.6	631.5	618.6	607.2	600.1	595.8	594.2	593.8	594.2
5°	710.2	685.8	648.4	624.9	611.9	604.4	600.1	599.7	600.1	600.5	599.3
7.5°	742.0	707.0	658.3	636.3	626.4	620.9	619.0	618.2	618.6	618.2	618.2
10°	784.5	736.5	677.5	654.7	646.5	640.2	637.0	635.1	633.5	631.9	631.1
12.5°	831.3	769.2	698.4	676.4	664.6	654.7	647.7	642.6	639.0	635.5	634.7
15°	883.6	803.8	721.6	690.9	674.0	659.5	647.3	639.0	632.7	627.6	627.2
17.5°	933.5	836.4	737.3	697.6	672.8	652.4	636.3	624.9	617.0	610.3	609.5
20°	987.0	867.5	744.4	693.3	661.0	636.3	615.0	601.3	592.2	584.7	583.6
22.5°	1040.9	893.8	743.6	679.5	640.6	611.5	589.1	574.5	563.9	556.4	553.7
25°	1092.4	915.1	733.8	657.5	612.3	582.0	559.2	545.8	536.4	527.3	527.3
27.5°	1138.8	927.6	715.3	630.8	583.2	551.3	533.2	521.0	512.4	506.5	503.0
30°	1184.4	933.5	690.1	596.9	552.5	525.4	510.8	503.7	495.9	489.2	488.4
32.5°	1225.3	932.4	658.7	563.9	523.4	504.1	498.2	492.7	484.5	475.0	472.7
35°	1265.0	924.5	621.3	527.7	499.0	491.5	493.1	485.3	470.3	458.5	456.5
37.5°	1308.3	910.3	580.4	498.2	478.6	485.6	489.6	472.3	447.9	429.4	425.1
40°	1358.2	894.2	537.9	468.7	462.4	480.1	480.1	448.3	414.9	403.5	400.3
42.5°	1416.8	880.9	502.6	444.0	449.1	466.8	464.8	416.4	402.7	396.8	395.2
45°	1509.6	876.1	466.0	422.3	438.1	451.0	434.9	405.4	397.6	392.8	391.3
47.5°	1656.3	881.6	433.7	406.2	425.5	435.3	401.5	398.0	392.5	385.8	385.0
50°	1792.4	876.5	410.9	397.2	414.5	416.4	387.7	388.9	385.8	378.3	376.7
52.5°	1903.7	860.4	396.4	392.5	405.0	383.4	374.8	379.1	377.9	368.5	366.9
55°	2026.0	850.6	389.3	392.5	398.7	354.7	362.6	368.9	367.3	360.6	360.2
57.5°	2174.2	852.5	384.2	393.6	392.5	340.2	350.4	357.8	357.5	355.5	355.5
60°	2326.0	853.3	376.3	393.2	385.0	328.7	337.8	348.4	349.2	350.4	350.4
62.5°	2376.3	819.1	361.0	386.2	368.5	317.7	326.0	340.5	339.8	342.9	343.3
65°	2282.4	724.3	338.2	370.0	347.2	309.9	316.9	330.3	326.0	334.3	335.8
67.5°	2077.5	599.3	302.8	340.9	323.6	301.6	311.1	316.2	308.3	324.4	324.8
70°	1795.5	468.0	258.0	299.6	296.9	293.0	306.3	298.5	287.5	307.1	303.2
72.5°	1501.4	357.5	206.1	245.0	261.1	280.0	298.1	275.7	260.3	266.2	259.1
75°	1127.8	264.3	165.6	191.9	217.5	261.5	290.6	248.1	224.5	219.0	217.5
77.5°	574.9	172.6	123.9	143.5	163.2	236.3	280.4	215.9	186.0	177.4	173.4
80°	205.3	107.4	87.3	99.1	110.1	203.3	245.0	178.5	144.3	142.7	144.3
82.5°	95.2	69.2	58.6	64.9	65.3	135.7	186.8	133.3	109.7	166.7	140.8
85°	40.9	34.6	33.0	32.2	29.9	60.6	105.0	71.6	111.7	49.9	46.0
87.5°	12.2	13.8	12.2	9.0	6.7	6.7	10.6	3.9	2.8	2.0	2.0
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)