

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: P594617

Luminaire Tested: **ISS-PA1C-727-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1C-727-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5787 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

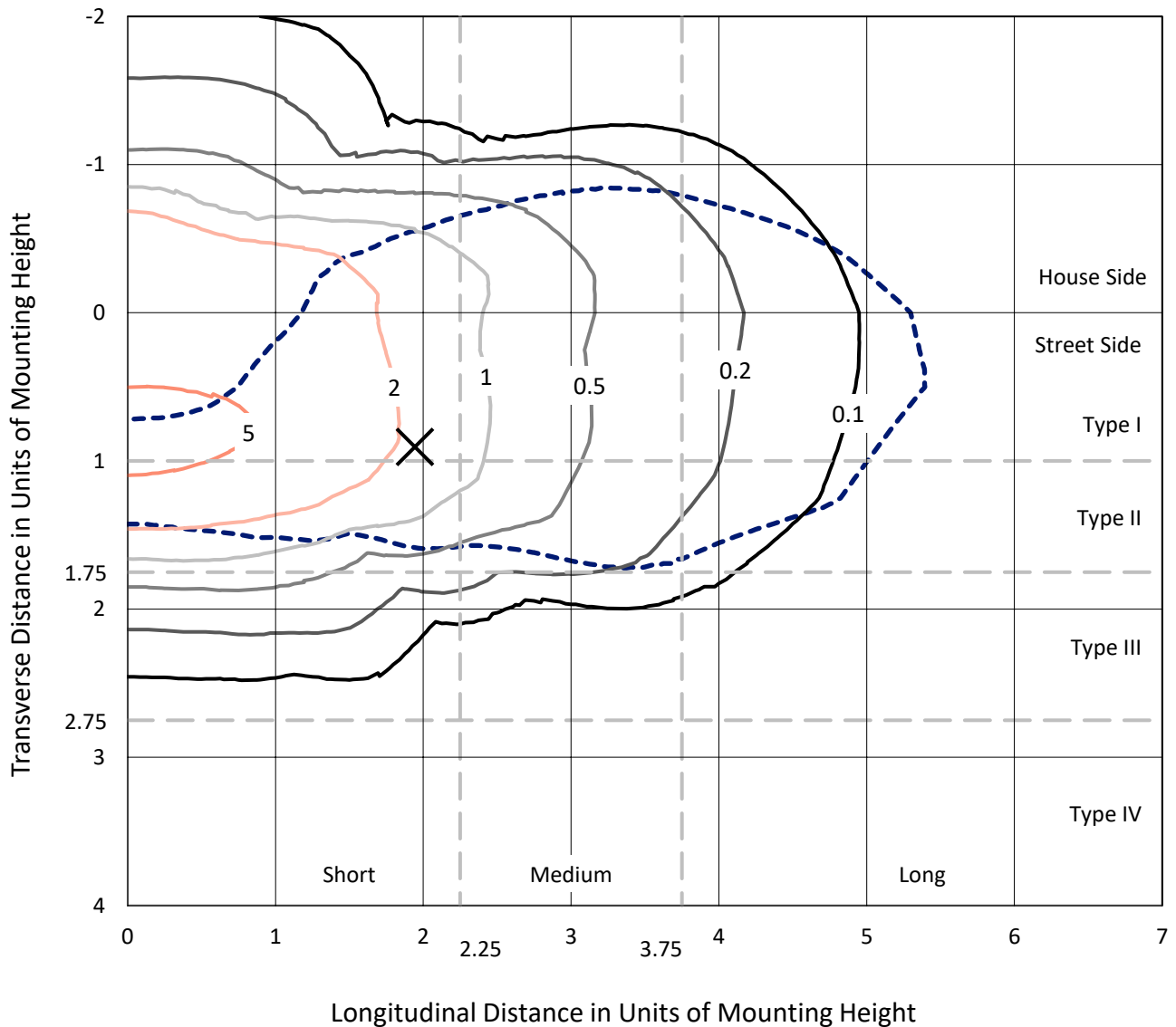
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

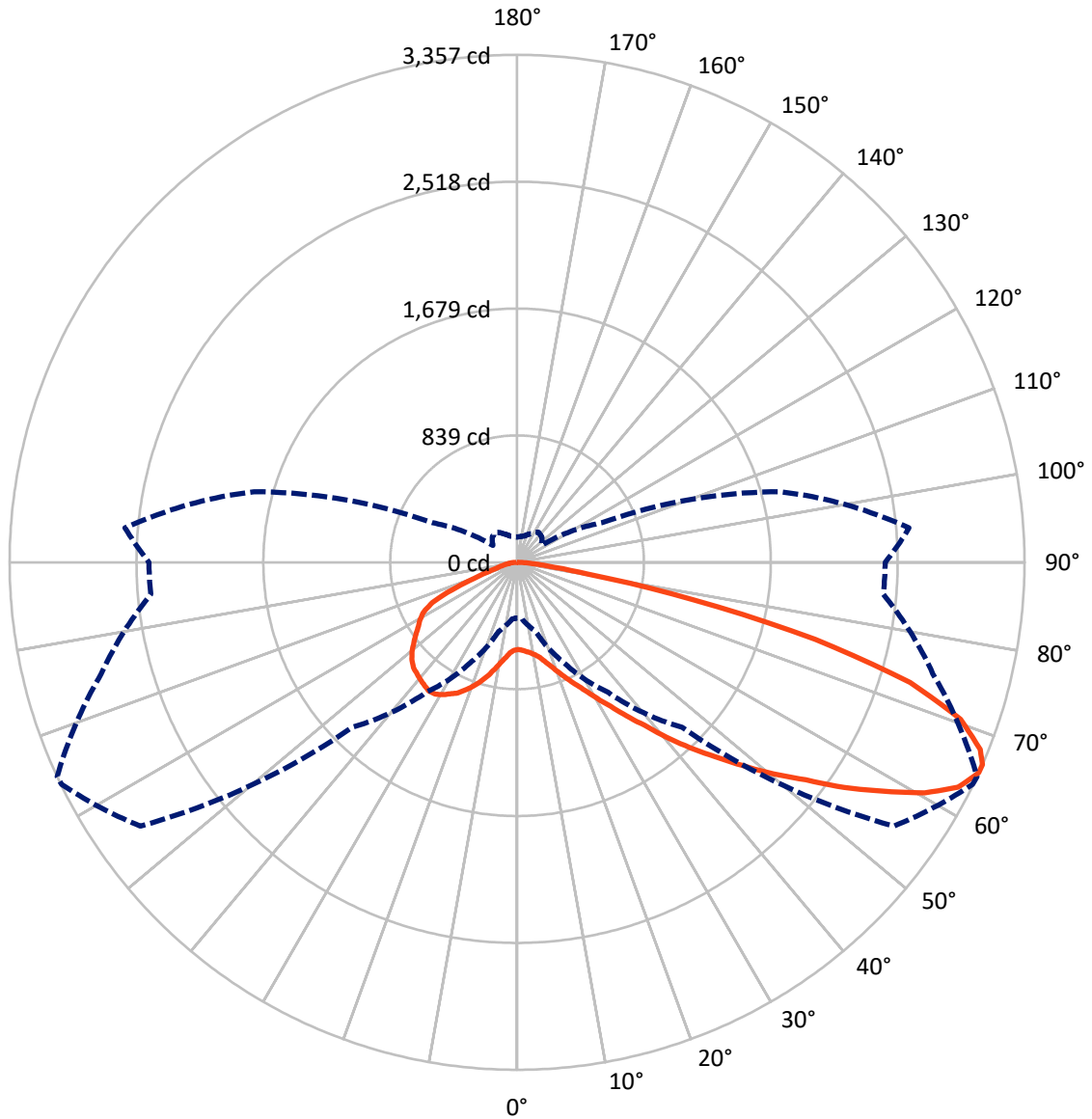
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1757.2	0.0	1757.2
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	4029.8	0.0	4029.8
	% Fixture	69.6	0.0	69.6
Total	Lumens	5787.0	0.0	5787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	1.0
10°-20°	205.1	3.5
20°-30°	401.7	6.9
30°-40°	656.4	11.3
40°-50°	1041.8	18.0
50°-60°	1339.9	23.2
60°-70°	1208.3	20.9
70°-80°	749.4	13.0
80°-90°	125.6	2.2
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°	5787.0	100.0
0°-180°	5787.0	100.0

Coefficient of Utilization



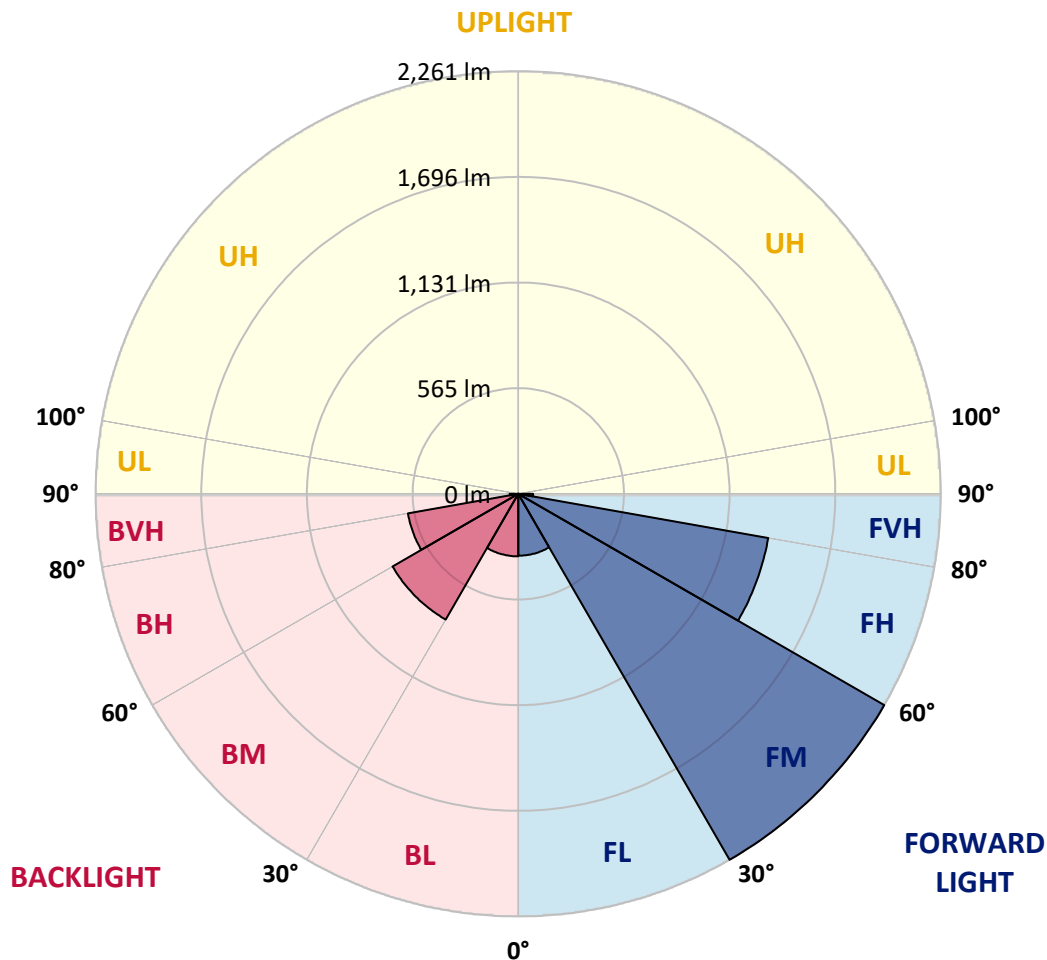
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	330.9	5.7			
FM (30°-60°)	2261.2	39.1			
FH (60°-80°)	1358.2	23.5			G1/1800
FVH (80°-90°)	79.4	1.4			G1/100
BL (0°-30°)	334.7	5.8	B1/500		
BM (30°-60°)	776.8	13.4	B1/1000		
BH (60°-80°)	599.6	10.4	B2/1000		G2/1000
BVH (80°-90°)	46.1	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8
2.5°	578.2	579.6	581.0	578.2	581.0	582.4	579.6	579.6	581.0	578.2	578.2
5°	574.0	575.4	578.2	579.6	585.2	588.1	589.5	589.5	590.9	589.5	590.9
7.5°	562.8	562.8	568.4	571.2	579.6	589.5	595.1	603.5	603.5	604.9	609.1
10°	574.0	574.0	578.2	582.4	589.5	597.9	606.3	616.1	618.9	628.8	634.4
12.5°	590.9	593.7	599.3	604.9	613.3	623.1	630.2	640.0	641.4	651.2	662.4
15°	618.9	621.7	624.5	631.6	642.8	655.4	668.1	675.1	677.9	683.5	691.9
17.5°	661.0	663.8	665.2	669.5	677.9	694.7	713.0	718.6	721.4	721.4	728.4
20°	732.6	731.2	728.4	720.0	720.0	735.4	760.7	770.5	773.3	767.7	763.5
22.5°	815.4	814.0	802.8	793.0	785.9	788.8	814.0	830.9	829.5	818.2	801.4
25°	923.5	926.3	908.0	882.8	861.7	856.1	871.6	888.4	891.2	870.2	842.1
27.5°	1052.6	1048.4	1038.6	997.9	957.2	931.9	940.3	958.6	960.0	937.5	892.6
30°	1204.2	1197.2	1171.9	1129.8	1066.6	1031.6	1024.5	1040.0	1044.2	1006.3	941.7
32.5°	1372.6	1365.6	1333.3	1268.7	1200.0	1141.0	1118.6	1139.6	1136.8	1093.3	1003.5
35°	1576.1	1574.7	1515.7	1435.7	1348.7	1270.1	1239.3	1239.3	1247.7	1183.1	1082.1
37.5°	1848.4	1859.6	1772.6	1647.7	1525.6	1420.3	1368.4	1365.6	1367.0	1296.8	1170.5
40°	2094.0	2089.8	2039.2	1922.8	1744.5	1609.8	1532.6	1515.7	1520.0	1430.1	1285.6
42.5°	2235.7	2239.9	2227.3	2176.8	2021.0	1851.2	1719.3	1674.3	1675.7	1563.5	1395.0
45°	2324.1	2328.4	2327.0	2352.2	2290.5	2130.5	1942.4	1838.5	1832.9	1715.0	1524.2
47.5°	2374.7	2377.5	2395.7	2447.7	2498.2	2461.7	2189.4	2021.0	2009.8	1856.8	1653.3
50°	2318.5	2319.9	2392.9	2516.4	2639.9	2750.8	2442.0	2202.0	2199.2	2014.0	1779.6
52.5°	2023.8	2049.1	2210.5	2468.7	2745.2	2955.7	2734.0	2415.4	2391.5	2162.7	1905.9
55°	1651.9	1663.1	1848.4	2176.8	2725.5	3082.0	2954.3	2645.5	2628.7	2328.4	2029.4
57.5°	1289.8	1301.0	1521.4	1795.0	2425.2	3075.0	3110.1	2894.0	2856.1	2472.9	2152.9
60°	832.3	867.3	1122.8	1459.6	1963.5	2861.7	3188.7	3132.5	3097.5	2616.1	2258.2
62.5°	565.6	571.2	731.2	1082.1	1469.4	2325.5	3183.1	3279.9	3274.3	2759.2	2363.4
65°	367.7	376.1	473.0	732.6	1051.2	1543.8	3042.7	3351.5	3357.1	2847.6	2432.2
66°	311.6	317.2	391.6	616.1	920.7	1223.8	2919.2	3345.9	3357.1	2888.3	2453.3
67.5°	270.9	275.1	313.0	454.7	752.3	880.0	2597.8	3271.5	3303.8	2926.2	2479.9
70°	233.0	238.6	273.7	310.2	537.5	513.7	1644.9	3080.6	3112.9	2944.5	2496.8
72.5°	192.3	196.5	231.6	280.7	390.2	345.3	725.6	2637.1	2718.5	2877.1	2470.1
75°	151.6	154.4	186.7	234.4	298.9	269.5	315.8	1934.0	2036.4	2536.1	2366.3
77.5°	117.9	119.3	144.6	182.5	273.7	209.1	195.1	941.7	1191.5	1959.2	2084.2
80°	81.4	84.2	106.7	137.5	200.7	165.6	130.5	367.7	467.4	1301.0	1580.3
82.5°	53.3	54.7	73.0	103.9	133.3	158.6	85.6	178.2	196.5	599.3	684.9
85°	36.5	36.5	51.9	64.6	91.2	105.3	56.1	94.0	102.5	227.4	82.8
87.5°	18.2	18.2	25.3	33.7	43.5	40.7	33.7	33.7	33.7	74.4	23.9
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°	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8	576.8
2.5°	579.6	579.6	581.0	582.4	583.8	583.8	585.2	585.2	583.8	585.2	586.7
5°	592.3	593.7	596.5	600.7	607.7	614.7	621.7	625.9	630.2	631.6	628.8
7.5°	611.9	614.7	624.5	635.8	647.0	663.8	673.7	679.3	682.1	684.9	682.1
10°	637.2	642.8	656.8	676.5	696.1	717.2	728.4	736.8	738.2	741.0	738.2
12.5°	666.6	676.5	697.5	725.6	749.5	770.5	778.9	773.3	760.7	755.1	753.7
15°	701.7	711.6	741.0	776.1	804.2	814.0	801.4	783.1	769.1	767.7	766.3
17.5°	732.6	746.6	787.3	823.8	850.5	840.7	807.0	795.8	791.6	797.2	795.8
20°	771.9	783.1	823.8	868.7	882.8	844.9	821.0	814.0	809.8	809.8	807.0
22.5°	804.2	812.6	861.7	910.9	902.4	847.7	830.9	816.8	802.8	801.4	797.2
25°	842.1	844.9	896.8	950.1	905.2	850.5	821.0	797.2	783.1	778.9	780.3
27.5°	877.2	884.2	929.1	976.8	898.2	835.1	787.3	756.5	735.4	734.0	734.0
30°	922.1	922.1	962.8	1006.3	882.8	795.8	732.6	687.7	670.9	669.5	666.6
32.5°	972.6	964.2	1003.5	1027.3	849.1	742.4	658.2	607.7	581.0	575.4	571.2
35°	1042.8	1024.5	1052.6	1031.6	815.4	666.6	564.2	506.7	487.0	478.6	478.6
37.5°	1124.2	1097.5	1127.0	1018.9	763.5	578.2	466.0	422.4	401.4	388.8	393.0
40°	1219.6	1185.9	1202.8	1004.9	707.3	480.0	384.6	357.9	332.6	315.8	315.8
42.5°	1331.9	1275.8	1288.4	990.8	627.4	394.4	332.6	314.4	294.7	277.9	282.1
45°	1440.0	1385.2	1372.6	976.8	543.1	336.8	311.6	298.9	280.7	261.0	261.0
47.5°	1564.9	1494.7	1447.0	951.6	460.3	318.6	317.2	298.9	263.9	235.8	233.0
50°	1682.8	1618.2	1514.3	913.7	414.0	334.0	315.8	272.3	238.6	220.3	218.9
52.5°	1807.7	1740.3	1569.1	867.3	390.2	327.0	290.5	249.8	224.6	206.3	202.1
55°	1931.2	1896.1	1618.2	822.4	352.3	304.6	269.5	235.8	209.1	192.3	189.5
57.5°	2071.5	2057.5	1660.3	777.5	293.3	276.5	254.0	226.0	200.7	188.1	186.7
60°	2193.6	2242.7	1710.8	743.8	249.8	255.4	247.0	224.6	206.3	192.3	192.3
62.5°	2322.7	2421.0	1755.7	700.3	217.5	242.8	248.4	223.2	199.3	186.7	186.7
65°	2435.0	2603.4	1802.1	620.3	195.1	233.0	244.2	207.7	179.6	169.8	167.0
66°	2482.7	2655.4	1816.1	571.2	186.7	226.0	237.2	199.3	171.2	162.8	161.4
67.5°	2538.9	2736.8	1832.9	466.0	174.0	210.5	221.7	186.7	157.2	151.6	148.8
70°	2617.5	2753.6	1823.1	304.6	151.6	181.0	197.9	167.0	140.3	136.1	131.9
72.5°	2625.9	2638.5	1724.9	192.3	131.9	155.8	174.0	150.2	123.5	119.3	116.5
75°	2486.9	2338.2	1459.6	137.5	116.5	137.5	153.0	130.5	102.5	96.8	94.0
77.5°	2123.5	1855.4	1049.8	102.5	101.0	117.9	127.7	113.7	85.6	81.4	80.0
80°	1490.5	1258.9	526.3	77.2	80.0	98.2	106.7	95.4	71.6	66.0	63.2
82.5°	603.5	534.7	181.0	57.5	60.3	74.4	91.2	78.6	54.7	47.7	42.1
85°	68.8	116.5	78.6	39.3	40.7	50.5	61.8	47.7	32.3	26.7	22.5
87.5°	14.0	25.3	28.1	15.4	14.0	19.6	28.1	16.8	11.2	4.2	5.6
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)