

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: P594457

Luminaire Tested: **ISS-PA1A-730-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-PA1A-730-U-T3  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3819 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

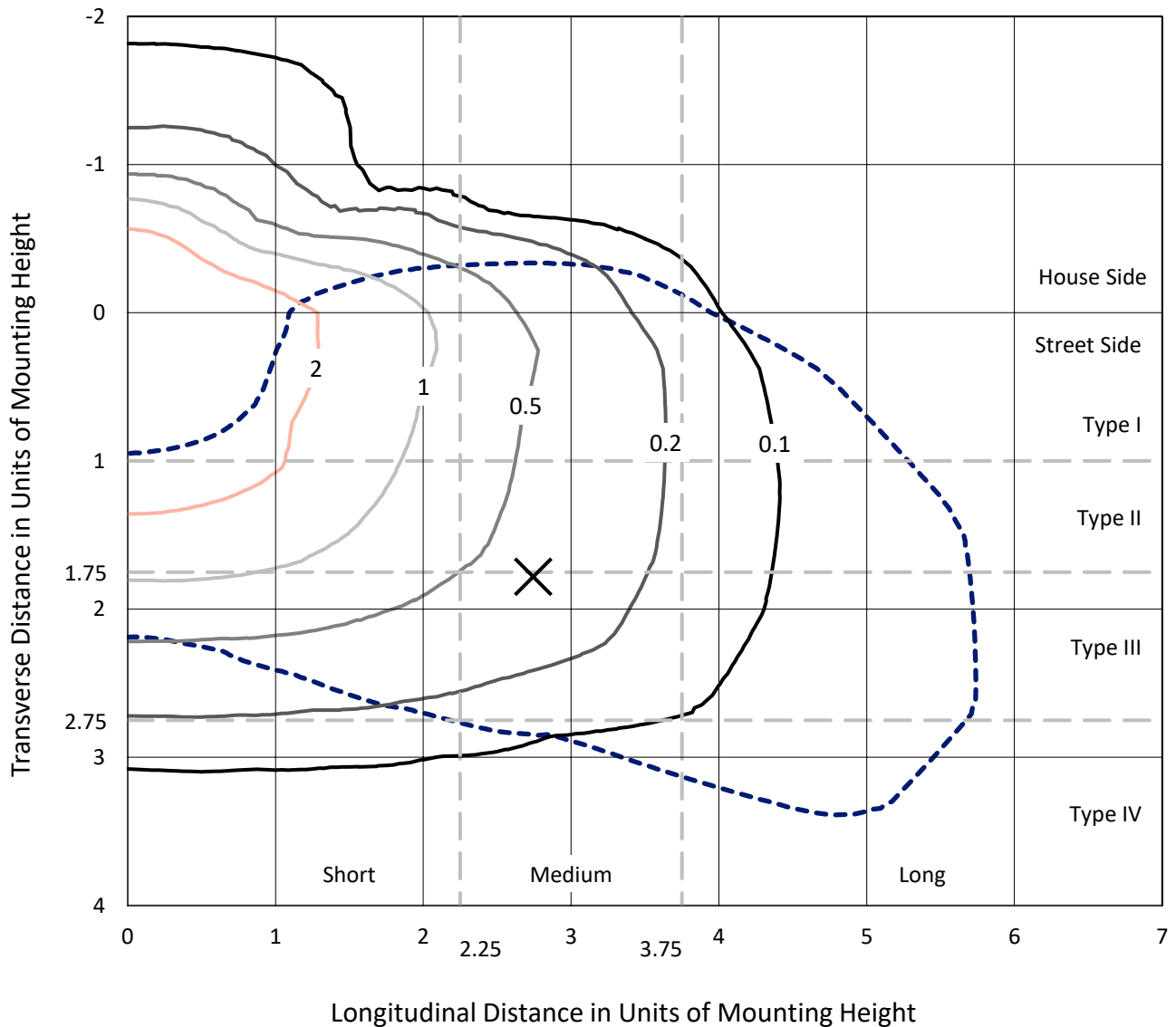
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

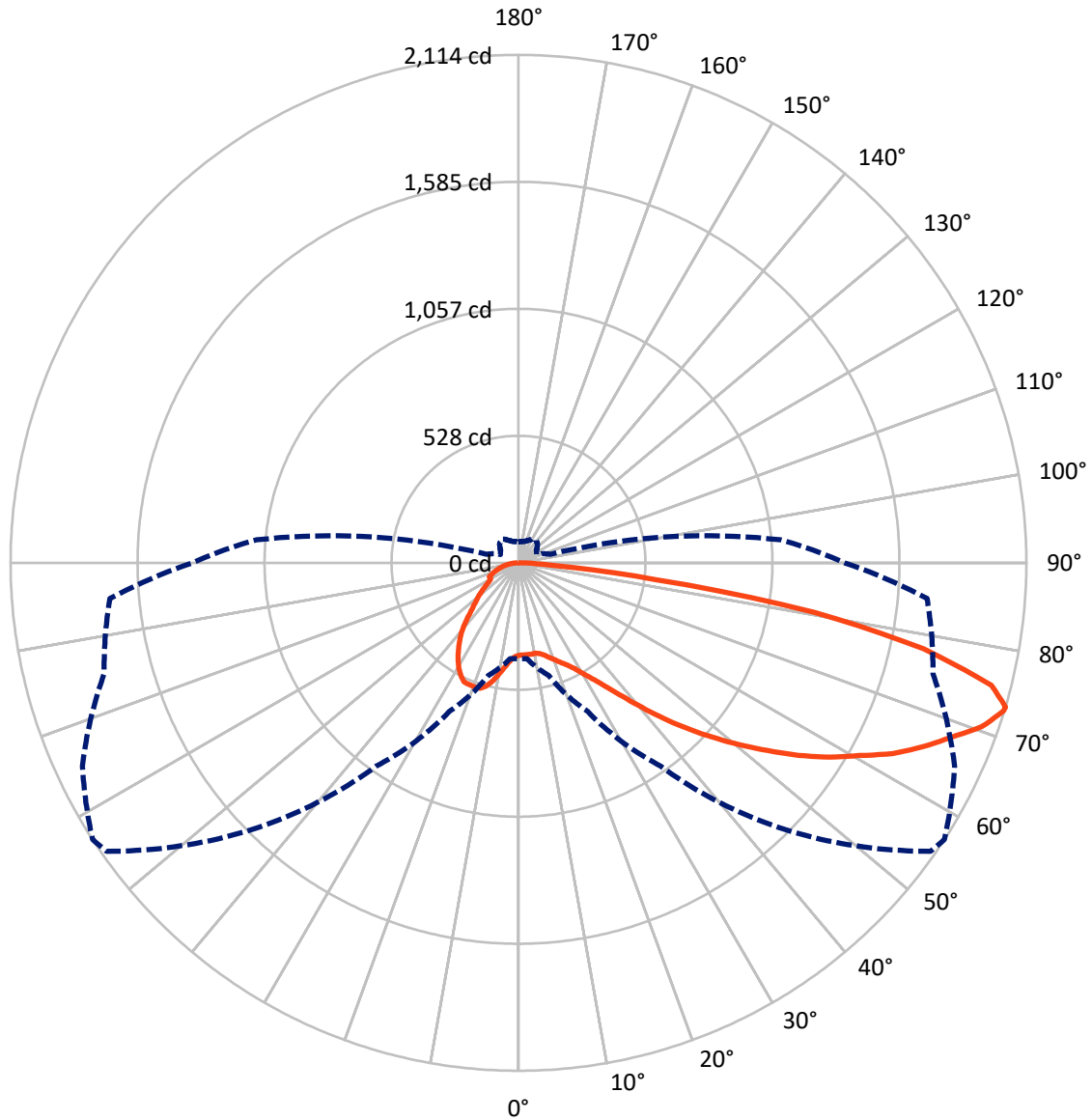
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	911.1	0.0	911.1
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	2907.9	0.0	2907.9
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	3819.0	0.0	3819.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.4	1.0
10°-20°	126.3	3.3
20°-30°	233.2	6.1
30°-40°	360.1	9.4
40°-50°	542.1	14.2
50°-60°	793.4	20.8
60°-70°	937.0	24.5
70°-80°	670.8	17.6
80°-90°	117.5	3.1
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°	3819.0	100.0
0°-180°	3819.0	100.0

**Coefficient of Utilization**

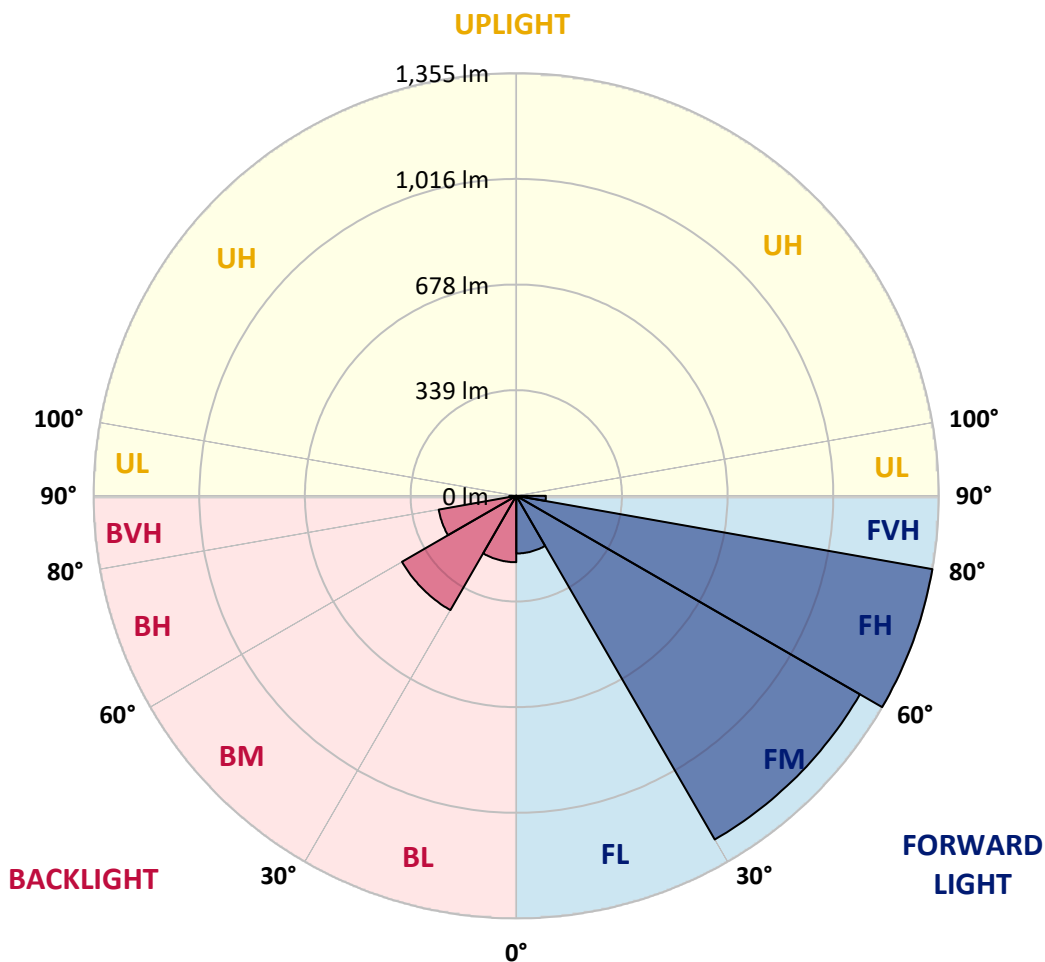


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.0	4.8			
FM (30°-60°)	1272.6	33.3			
FH (60°-80°)	1355.2	35.5			G1/1800
FVH (80°-90°)	95.1	2.5			G1/100
BL (0°-30°)	212.9	5.6	B1/500		
BM (30°-60°)	423.1	11.1	B1/1000		
BH (60°-80°)	252.6	6.6	B1/500		G1/500
BVH (80°-90°)	22.5	0.6			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8
2.5°	380.1	382.0	381.0	382.0	384.8	382.9	382.9	383.8	384.8	383.8	385.7
5°	364.2	365.1	367.0	370.7	377.3	379.1	383.8	383.8	385.7	387.6	390.4
7.5°	338.0	339.8	343.6	347.3	358.6	369.8	382.0	383.8	390.4	395.1	396.9
10°	333.3	335.1	336.1	341.7	352.9	364.2	379.1	382.9	395.1	402.6	411.0
12.5°	328.6	330.5	333.3	340.8	354.8	367.0	382.9	386.6	401.6	416.6	426.9
15°	332.3	333.3	336.1	343.6	357.6	374.5	395.1	397.9	414.7	433.4	449.4
17.5°	341.7	342.6	341.7	348.3	361.4	381.0	409.1	413.8	434.4	453.1	469.0
20°	363.2	364.2	360.4	360.4	369.8	389.4	424.1	430.6	455.9	476.5	492.4
22.5°	410.0	408.2	398.8	386.6	386.6	402.6	440.9	450.3	482.1	499.0	513.0
25°	476.5	476.5	461.5	439.1	424.1	422.2	460.6	470.9	508.3	528.9	537.4
27.5°	557.0	558.0	533.6	503.7	474.6	460.6	488.7	499.0	541.1	562.6	565.4
30°	628.2	629.1	604.8	576.7	541.1	510.2	526.1	537.4	586.0	602.9	593.5
32.5°	699.3	700.3	683.4	645.0	607.6	569.2	573.9	580.4	630.0	646.0	631.0
35°	761.1	763.9	747.1	718.0	678.7	644.1	635.7	636.6	681.5	691.8	672.2
37.5°	823.8	823.8	813.5	786.4	752.7	714.3	703.1	705.9	746.1	756.4	728.3
40°	903.4	907.1	901.5	867.8	829.4	797.6	786.4	790.1	834.1	828.5	798.6
42.5°	999.8	1008.3	998.9	962.4	921.2	885.6	885.6	885.6	923.1	924.0	879.1
45°	1123.4	1123.4	1114.0	1082.2	1027.9	992.3	980.2	983.0	1015.7	1019.5	967.1
47.5°	1226.4	1235.7	1225.4	1202.0	1159.0	1125.3	1086.9	1082.2	1109.4	1109.4	1064.4
50°	1309.7	1326.6	1318.1	1328.4	1297.5	1280.7	1202.0	1188.9	1198.3	1207.7	1158.0
52.5°	1379.0	1392.1	1389.3	1419.2	1434.2	1443.6	1319.1	1298.5	1306.0	1305.0	1260.1
55°	1383.7	1388.3	1430.5	1497.9	1556.9	1600.9	1437.0	1414.6	1407.1	1403.3	1368.7
57.5°	1356.5	1359.3	1443.6	1523.1	1651.4	1702.0	1548.4	1526.0	1515.7	1502.6	1488.5
60°	1291.0	1305.0	1415.5	1538.1	1707.6	1780.6	1652.3	1628.9	1621.4	1593.4	1625.2
62.5°	1207.7	1214.2	1324.7	1507.2	1715.1	1814.3	1761.9	1747.8	1724.4	1684.2	1746.9
65°	1089.7	1088.8	1186.1	1416.4	1676.7	1831.1	1854.6	1847.1	1818.0	1748.8	1855.5
67.5°	895.0	916.5	1012.0	1255.4	1584.0	1848.0	1949.1	1939.7	1893.9	1806.8	1907.0
70°	682.5	695.6	804.2	1013.9	1399.6	1802.1	2041.8	2044.6	1961.3	1819.0	1884.5
72.5°	435.3	457.8	543.9	738.6	1120.6	1631.7	2097.0	2110.1	1998.7	1802.1	1745.0
73°	398.8	400.7	484.9	683.4	1033.5	1570.9	2093.3	2113.9	2002.5	1785.3	1706.6
75°	237.8	248.1	298.6	454.0	737.7	1262.0	1992.2	2033.4	1982.8	1710.4	1496.0
77.5°	111.4	118.9	147.0	239.7	401.6	759.2	1674.8	1723.5	1757.2	1496.9	1140.3
80°	59.0	59.9	72.1	120.8	215.3	312.7	1167.4	1247.9	1295.7	1127.1	766.7
82.5°	49.6	49.6	56.2	77.7	137.6	121.7	481.2	572.9	702.1	555.1	301.4
85°	40.3	41.2	56.2	58.0	98.3	62.7	115.1	144.2	272.4	245.3	33.7
87.5°	13.1	15.0	31.8	41.2	52.4	24.3	29.0	31.8	31.8	46.8	11.2
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°	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8	384.8
2.5°	386.6	386.6	387.6	388.5	390.4	390.4	392.3	393.2	395.1	396.0	393.2
5°	390.4	392.3	394.1	399.7	406.3	411.9	417.5	422.2	426.9	429.7	428.8
7.5°	400.7	403.5	411.0	421.3	434.4	442.8	451.2	459.7	463.4	465.3	465.3
10°	414.7	420.3	434.4	451.2	466.2	479.3	485.9	491.5	493.4	495.2	493.4
12.5°	434.4	441.9	463.4	484.9	501.8	508.3	507.4	499.9	489.6	487.7	485.9
15°	459.7	469.0	493.4	518.6	531.7	523.3	501.8	494.3	492.4	498.0	496.2
17.5°	481.2	492.4	522.4	548.6	545.8	516.8	510.2	514.0	512.1	513.0	513.0
20°	501.8	517.7	549.5	567.3	543.0	524.3	518.6	514.0	508.3	510.2	508.3
22.5°	528.0	539.2	575.7	576.7	539.2	524.3	512.1	502.7	500.9	501.8	502.7
25°	548.6	566.4	598.2	570.1	539.2	509.3	492.4	490.6	491.5	497.1	495.2
27.5°	576.7	594.5	616.0	566.4	516.8	484.9	478.4	477.4	470.9	472.8	472.8
30°	602.9	624.4	625.4	566.4	488.7	464.3	455.0	438.1	424.1	426.9	426.0
32.5°	638.5	657.2	627.2	543.9	456.9	437.2	411.9	385.7	379.1	382.9	383.8
35°	679.7	694.6	629.1	506.5	425.0	398.8	352.9	338.0	337.0	339.8	342.6
37.5°	734.0	742.4	643.1	463.4	394.1	338.9	303.3	299.6	291.1	285.5	286.5
40°	800.4	790.1	670.3	425.0	357.6	284.6	269.6	259.3	243.4	227.5	230.3
42.5°	874.4	845.4	678.7	394.1	308.0	250.9	236.9	220.9	201.3	184.4	183.5
45°	954.0	907.1	671.2	369.8	258.4	225.6	210.6	191.9	168.5	154.5	154.5
47.5°	1048.5	966.1	647.8	350.1	223.7	203.1	184.4	165.7	149.8	136.7	136.7
50°	1152.4	1034.5	631.0	315.5	199.4	181.6	162.9	147.9	135.7	125.4	125.4
52.5°	1262.0	1099.1	616.9	264.9	177.9	162.0	148.9	136.7	126.4	113.3	111.4
55°	1373.4	1160.9	623.5	216.3	158.2	147.9	139.5	127.3	123.6	120.8	118.9
57.5°	1489.4	1228.3	639.4	176.9	141.4	140.4	136.7	145.1	153.5	147.9	145.1
60°	1580.3	1280.7	641.3	148.9	131.1	147.9	166.6	169.4	147.0	133.9	132.9
62.5°	1652.3	1330.3	597.3	129.2	133.9	174.1	177.9	149.8	127.3	121.7	121.7
65°	1689.8	1348.1	480.3	118.0	139.5	166.6	161.0	134.8	118.9	118.0	118.0
67.5°	1671.1	1334.0	336.1	105.8	123.6	144.2	144.2	123.6	109.5	114.2	112.3
70°	1581.2	1264.8	221.9	95.5	108.6	130.1	133.9	115.1	102.0	104.9	102.0
72.5°	1394.0	1141.2	146.0	84.3	93.6	115.1	124.5	105.8	93.6	92.7	89.9
73°	1357.4	1094.4	137.6	82.4	90.8	111.4	121.7	103.9	91.7	88.9	87.1
75°	1151.5	912.8	103.9	74.0	80.5	100.2	113.3	97.4	84.3	80.5	78.6
77.5°	838.8	632.9	77.7	62.7	67.4	87.1	100.2	88.9	74.9	70.2	69.3
80°	523.3	344.5	58.0	50.6	53.4	73.0	88.0	79.6	64.6	59.0	58.0
82.5°	205.0	112.3	40.3	37.4	39.3	55.2	74.0	69.3	54.3	49.6	46.8
85°	33.7	38.4	26.2	25.3	25.3	39.3	56.2	53.4	36.5	31.8	28.1
87.5°	9.4	17.8	10.3	9.4	9.4	16.9	30.9	24.3	15.0	12.2	11.2
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)