

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: P593971

Luminaire Tested: **ISC-PA1A-735-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P593971  
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: ISC-PA1A-735-U-T3  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3906 lumens  
Efficiency: N/A  
Efficacy: 135.2 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

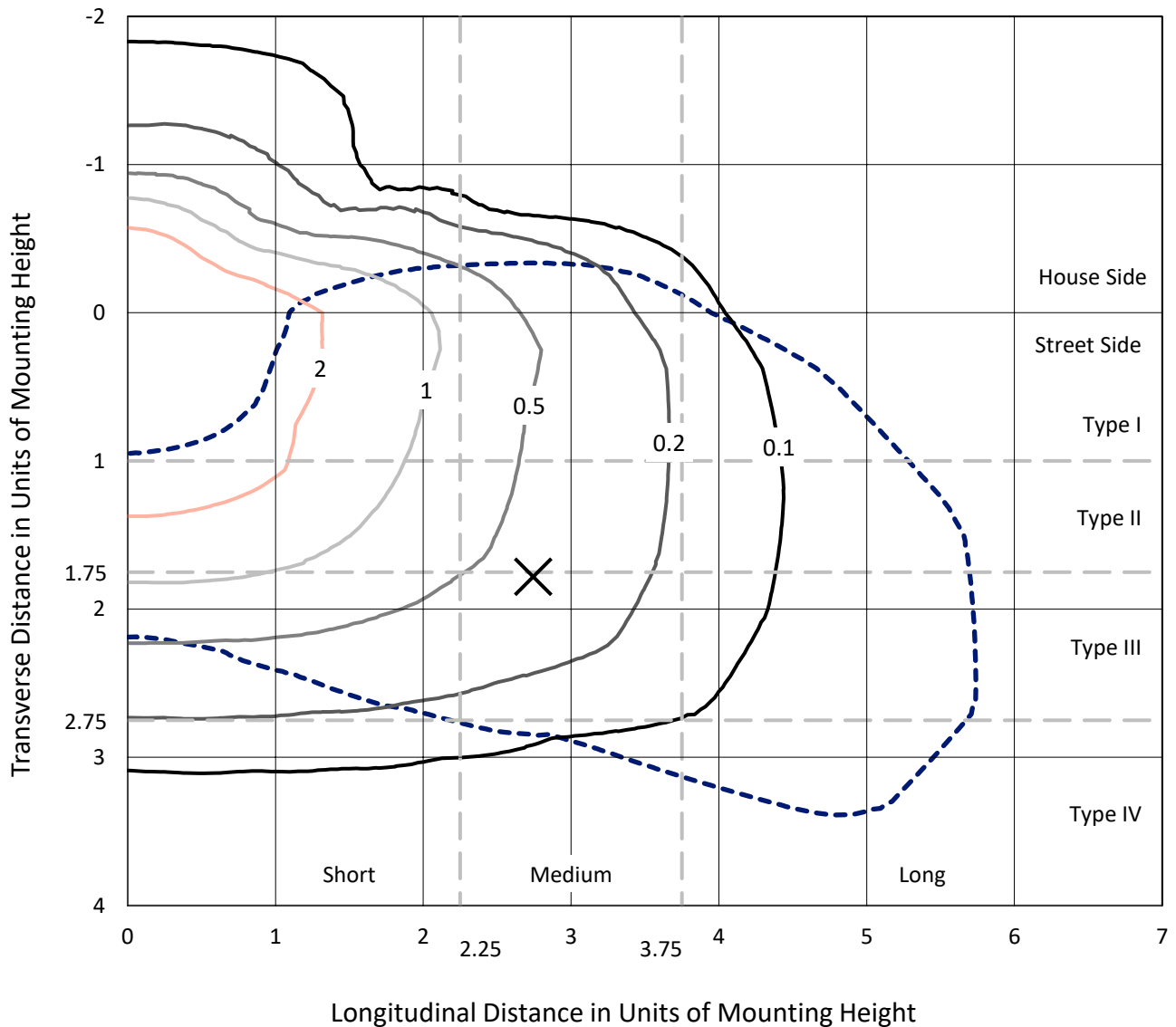
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

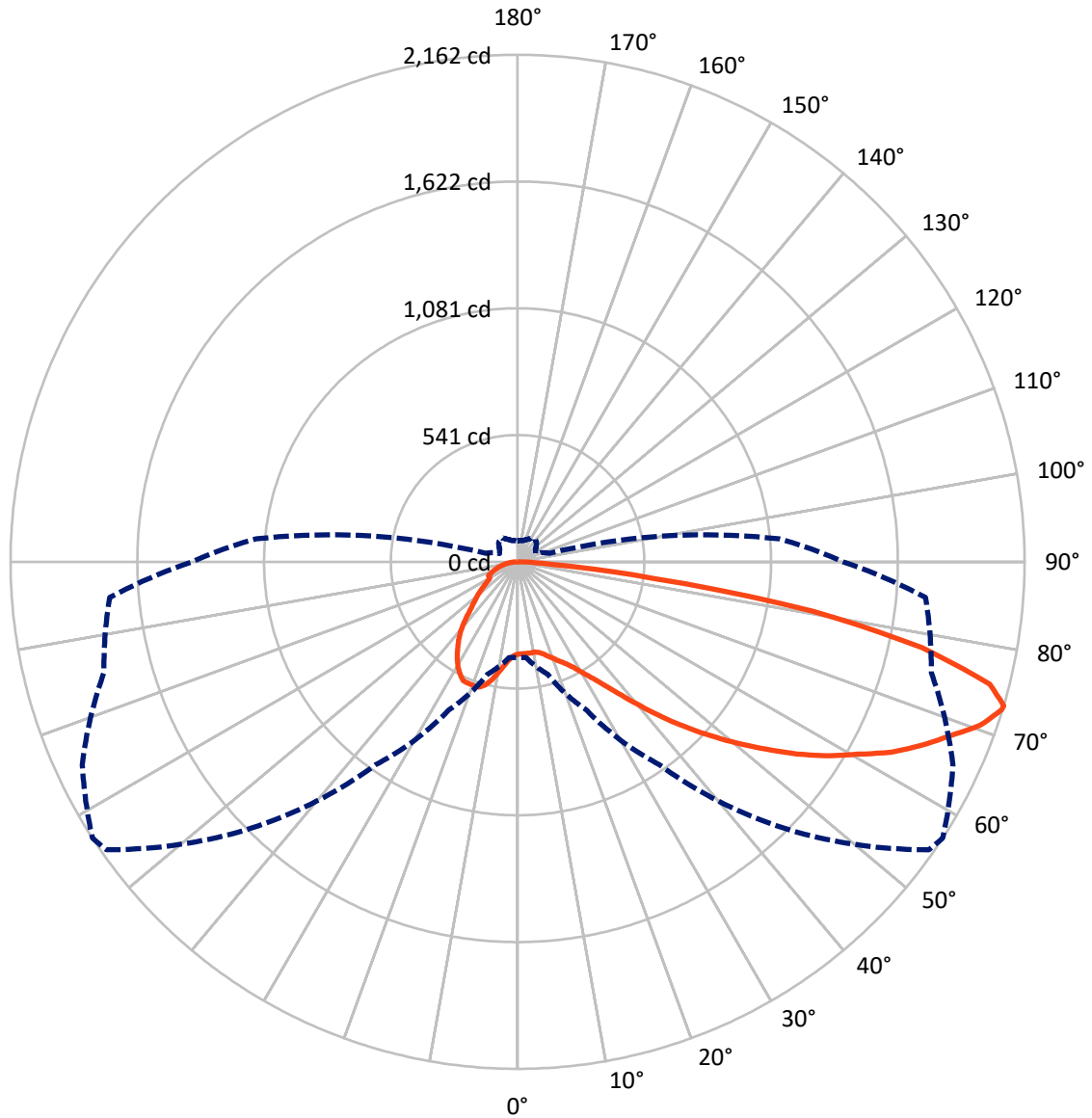
× Max cd  
 - - - 1/2 Max cd



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	931.8	0.0	931.8
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	2974.2	0.0	2974.2
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	3906.0	0.0	3906.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.3	1.0
10°-20°	129.2	3.3
20°-30°	238.5	6.1
30°-40°	368.4	9.4
40°-50°	554.5	14.2
50°-60°	811.5	20.8
60°-70°	958.3	24.5
70°-80°	686.1	17.6
80°-90°	120.2	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°	3906.0	100.0
0°-180°	3906.0	100.0

**Coefficient of Utilization**

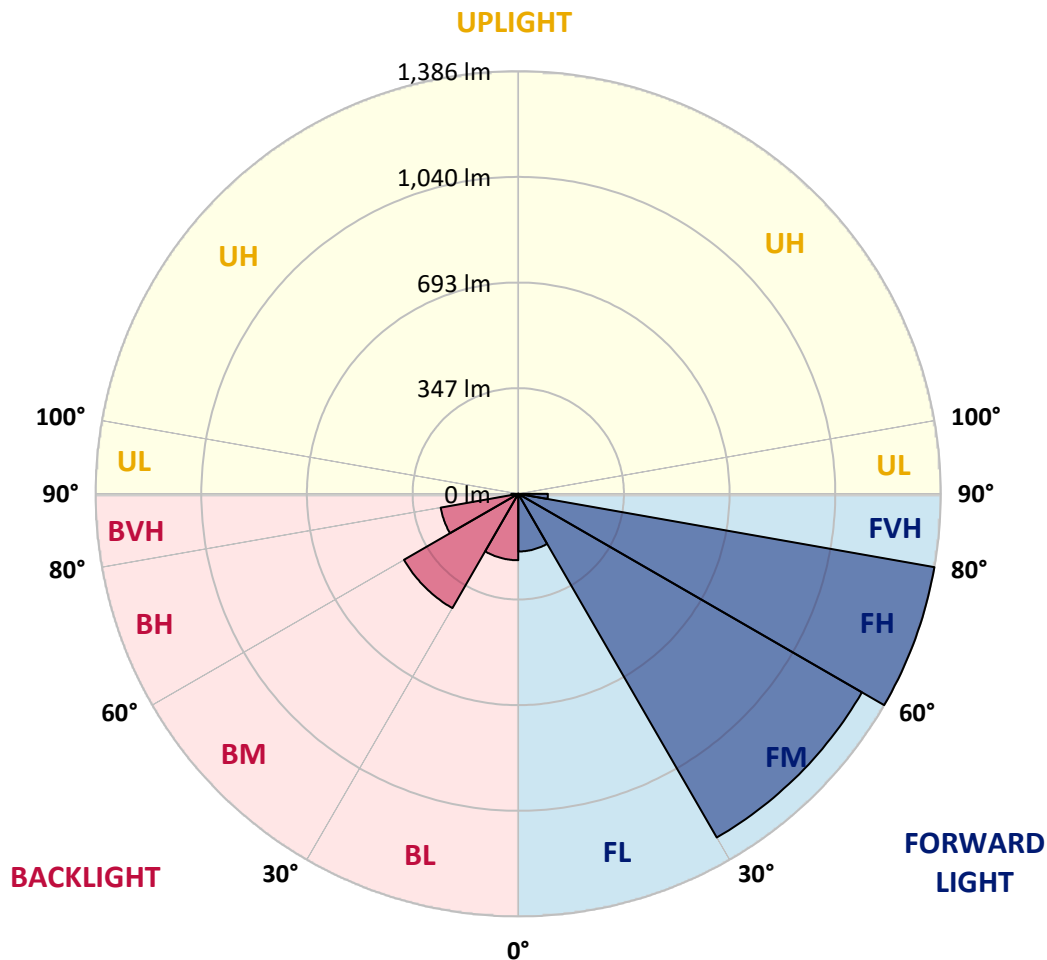


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.3	4.8			
FM (30°-60°)	1301.6	33.3			
FH (60°-80°)	1386.1	35.5			G1/1800
FVH (80°-90°)	97.3	2.5			G1/100
BL (0°-30°)	217.8	5.6	B1/500		
BM (30°-60°)	432.7	11.1	B1/1000		
BH (60°-80°)	258.4	6.6	B1/500		G1/500
BVH (80°-90°)	23.0	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°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5
2.5°	388.7	390.7	389.7	390.7	393.5	391.6	391.6	392.6	393.5	392.6	394.5
5°	372.5	373.4	375.3	379.2	385.9	387.8	392.6	392.6	394.5	396.4	399.3
7.5°	345.7	347.6	351.4	355.2	366.7	378.2	390.7	392.6	399.3	404.1	406.0
10°	340.9	342.8	343.7	349.5	361.0	372.5	387.8	391.6	404.1	411.7	420.3
12.5°	336.1	338.0	340.9	348.5	362.9	375.3	391.6	395.4	410.8	426.1	436.6
15°	339.9	340.9	343.7	351.4	365.8	383.0	404.1	406.9	424.2	443.3	459.6
17.5°	349.5	350.4	349.5	356.2	369.6	389.7	418.4	423.2	444.3	463.4	479.7
20°	371.5	372.5	368.6	368.6	378.2	398.3	433.7	440.4	466.3	487.4	503.6
22.5°	419.4	417.5	407.9	395.4	395.4	411.7	451.0	460.6	493.1	510.3	524.7
25°	487.4	487.4	472.0	449.1	433.7	431.8	471.1	481.6	519.9	541.0	549.6
27.5°	569.7	570.7	545.8	515.1	485.5	471.1	499.8	510.3	553.4	575.5	578.3
30°	642.5	643.4	618.5	589.8	553.4	521.8	538.1	549.6	599.4	616.6	607.1
32.5°	715.3	716.2	699.0	659.7	621.4	582.2	586.9	593.6	644.4	660.7	645.4
35°	778.4	781.3	764.1	734.4	694.2	658.8	650.1	651.1	697.1	707.6	687.5
37.5°	842.6	842.6	832.1	804.3	769.8	730.6	719.1	722.0	763.1	773.7	744.9
40°	924.0	927.8	922.1	887.6	848.3	815.8	804.3	808.1	853.1	847.4	816.7
42.5°	1022.6	1031.2	1021.6	984.3	942.2	905.8	905.8	905.8	944.1	945.0	899.1
45°	1149.0	1149.0	1139.4	1106.9	1051.3	1014.9	1002.5	1005.4	1038.9	1042.7	989.1
47.5°	1254.3	1263.9	1253.4	1229.4	1185.4	1150.9	1111.7	1106.9	1134.6	1134.6	1088.7
50°	1339.5	1356.8	1348.2	1358.7	1327.1	1309.9	1229.4	1216.0	1225.6	1235.2	1184.4
52.5°	1410.4	1423.8	1420.9	1451.6	1466.9	1476.5	1349.1	1328.0	1335.7	1334.8	1288.8
55°	1415.2	1420.0	1463.1	1532.0	1592.3	1637.3	1469.8	1446.8	1439.1	1435.3	1399.9
57.5°	1387.4	1390.3	1476.5	1557.8	1689.0	1740.7	1583.7	1560.7	1550.2	1536.8	1522.4
60°	1320.4	1334.8	1447.7	1573.2	1746.5	1821.2	1690.0	1666.0	1658.4	1629.7	1662.2
62.5°	1235.2	1241.9	1354.9	1541.6	1754.1	1855.6	1802.0	1787.6	1763.7	1722.5	1786.7
65°	1114.5	1113.6	1213.1	1448.7	1714.9	1872.9	1896.8	1889.1	1859.5	1788.6	1897.8
67.5°	915.4	937.4	1035.1	1284.0	1620.1	1890.1	1993.5	1983.9	1937.0	1848.0	1950.4
70°	698.0	711.4	822.5	1037.0	1431.5	1843.2	2088.3	2091.2	2006.0	1860.4	1927.4
72.5°	445.2	468.2	556.3	755.5	1146.1	1668.9	2144.8	2158.2	2044.3	1843.2	1784.8
73°	407.9	409.8	496.0	699.0	1057.1	1606.7	2141.0	2162.0	2048.1	1825.9	1745.5
75°	243.2	253.7	305.4	464.4	754.5	1290.7	2037.6	2079.7	2028.0	1749.3	1530.1
77.5°	113.9	121.6	150.3	245.1	410.8	776.5	1713.0	1762.8	1797.2	1531.0	1166.2
80°	60.3	61.3	73.7	123.5	220.2	319.8	1194.0	1276.3	1325.2	1152.8	784.2
82.5°	50.7	50.7	57.4	79.5	140.8	124.5	492.2	586.0	718.1	567.8	308.3
85°	41.2	42.1	57.4	59.4	100.5	64.2	117.8	147.5	278.6	250.9	34.5
87.5°	13.4	15.3	32.6	42.1	53.6	24.9	29.7	32.6	32.6	47.9	11.5
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°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5
2.5°	395.4	395.4	396.4	397.4	399.3	399.3	401.2	402.1	404.1	405.0	402.1
5°	399.3	401.2	403.1	408.9	415.6	421.3	427.0	431.8	436.6	439.5	438.5
7.5°	409.8	412.7	420.3	430.9	444.3	452.9	461.5	470.1	474.0	475.9	475.9
10°	424.2	429.9	444.3	461.5	476.8	490.2	496.9	502.7	504.6	506.5	504.6
12.5°	444.3	451.9	474.0	496.0	513.2	519.9	519.0	511.3	500.8	498.9	496.9
15°	470.1	479.7	504.6	530.5	543.9	535.2	513.2	505.6	503.6	509.4	507.5
17.5°	492.2	503.6	534.3	561.1	558.2	528.5	521.8	525.7	523.8	524.7	524.7
20°	513.2	529.5	562.1	580.2	555.3	536.2	530.5	525.7	519.9	521.8	519.9
22.5°	540.0	551.5	588.9	589.8	551.5	536.2	523.8	514.2	512.3	513.2	514.2
25°	561.1	579.3	611.8	583.1	551.5	520.9	503.6	501.7	502.7	508.4	506.5
27.5°	589.8	608.0	630.0	579.3	528.5	496.0	489.3	488.3	481.6	483.5	483.5
30°	616.6	638.7	639.6	579.3	499.8	474.9	465.3	448.1	433.7	436.6	435.7
32.5°	653.0	672.2	641.5	556.3	467.3	447.2	421.3	394.5	387.8	391.6	392.6
35°	695.1	710.5	643.4	518.0	434.7	407.9	361.0	345.7	344.7	347.6	350.4
37.5°	750.7	759.3	657.8	474.0	403.1	346.6	310.2	306.4	297.8	292.0	293.0
40°	818.7	808.1	685.6	434.7	365.8	291.1	275.8	265.2	248.9	232.7	235.5
42.5°	894.3	864.6	694.2	403.1	315.0	256.6	242.2	226.0	205.9	188.6	187.7
45°	975.7	927.8	686.5	378.2	264.3	230.8	215.4	196.3	172.3	158.0	158.0
47.5°	1072.4	988.1	662.6	358.1	228.8	207.8	188.6	169.5	153.2	139.8	139.8
50°	1178.7	1058.0	645.4	322.7	203.9	185.8	166.6	151.3	138.8	128.3	128.3
52.5°	1290.7	1124.1	631.0	271.0	181.9	165.6	152.2	139.8	129.3	115.9	113.9
55°	1404.6	1187.3	637.7	221.2	161.8	151.3	142.7	130.2	126.4	123.5	121.6
57.5°	1523.4	1256.2	654.0	181.0	144.6	143.6	139.8	148.4	157.0	151.3	148.4
60°	1616.3	1309.9	655.9	152.2	134.0	151.3	170.4	173.3	150.3	136.9	136.0
62.5°	1690.0	1360.6	610.9	132.1	136.9	178.1	181.9	153.2	130.2	124.5	124.5
65°	1728.3	1378.8	491.2	120.6	142.7	170.4	164.7	137.9	121.6	120.6	120.6
67.5°	1709.1	1364.4	343.7	108.2	126.4	147.5	147.5	126.4	112.0	116.8	114.9
70°	1617.2	1293.6	226.9	97.7	111.1	133.1	136.9	117.8	104.4	107.2	104.4
72.5°	1425.7	1167.2	149.4	86.2	95.7	117.8	127.3	108.2	95.7	94.8	91.9
73°	1388.4	1119.3	140.8	84.3	92.9	113.9	124.5	106.3	93.8	91.0	89.0
75°	1177.7	933.6	106.3	75.6	82.3	102.5	115.9	99.6	86.2	82.3	80.4
77.5°	857.9	647.3	79.5	64.2	68.9	89.0	102.5	91.0	76.6	71.8	70.9
80°	535.2	352.4	59.4	51.7	54.6	74.7	90.0	81.4	66.1	60.3	59.4
82.5°	209.7	114.9	41.2	38.3	40.2	56.5	75.6	70.9	55.5	50.7	47.9
85°	34.5	39.3	26.8	25.9	25.9	40.2	57.4	54.6	37.3	32.6	28.7
87.5°	9.6	18.2	10.5	9.6	9.6	17.2	31.6	24.9	15.3	12.4	11.5
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)