

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: P593960

Luminaire Tested: **ISC-PA1A-730-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P593960  
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: ISC-PA1A-730-U-T2U  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3862 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

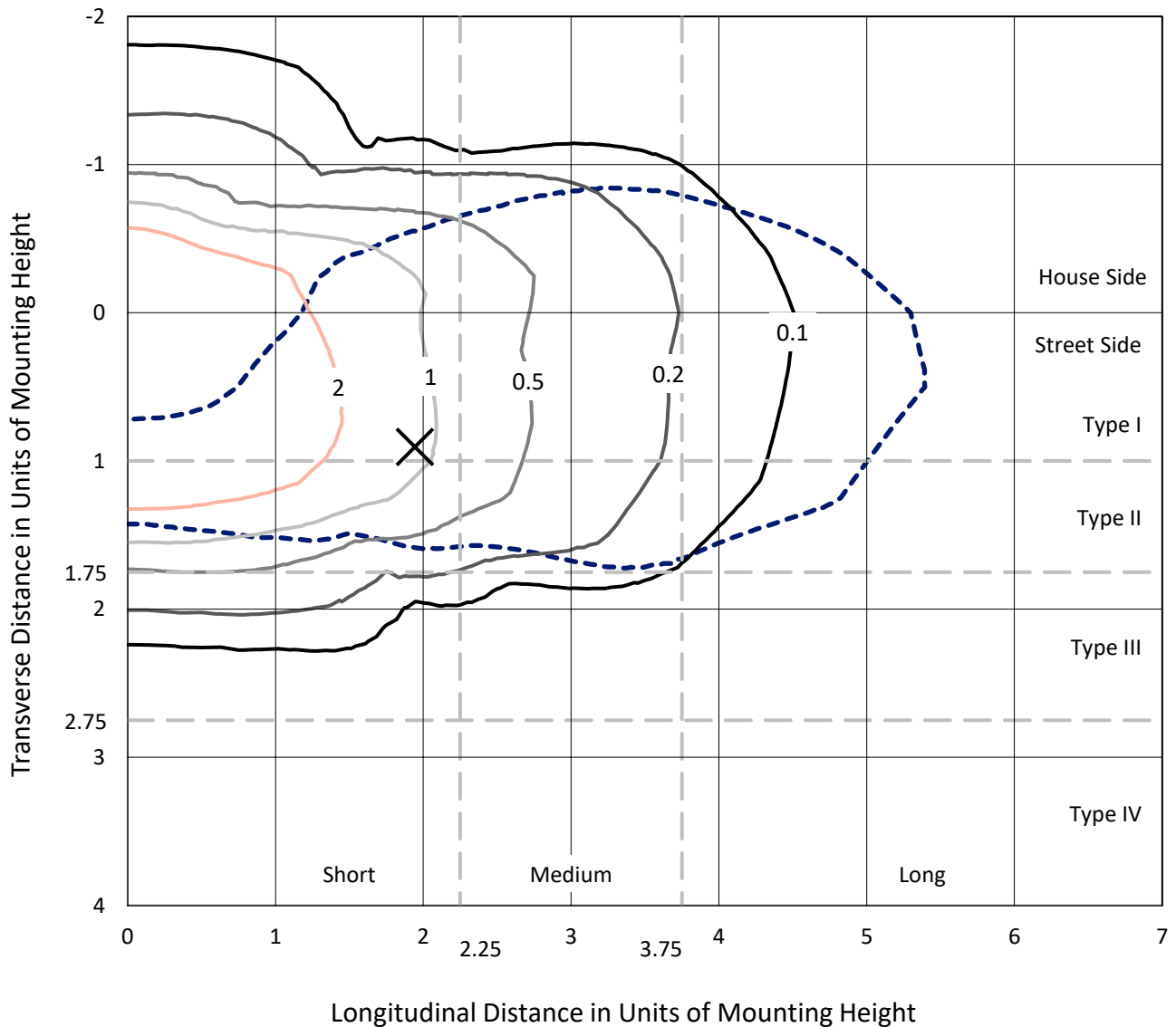
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

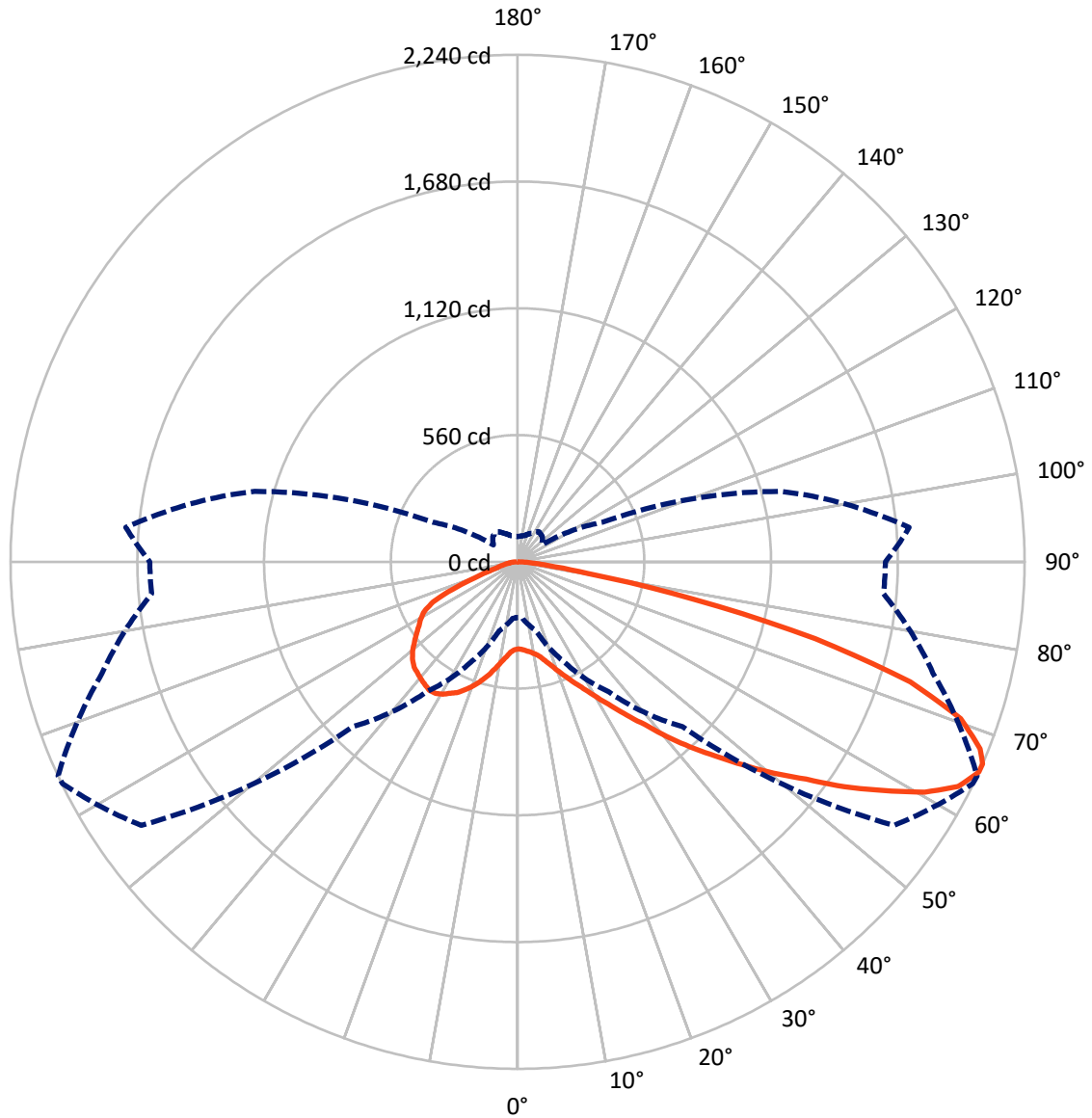
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.3 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
<b>House Side</b>	Lumens	1172.7	0.0	1172.7
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	2689.3	0.0	2689.3
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	3862.0	0.0	3862.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.3	1.0
10°-20°	136.9	3.5
20°-30°	268.1	6.9
30°-40°	438.0	11.3
40°-50°	695.2	18.0
50°-60°	894.2	23.2
60°-70°	806.4	20.9
70°-80°	500.1	13.0
80°-90°	83.8	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°	3862.0	100.0
0°-180°	3862.0	100.0

**Coefficient of Utilization**

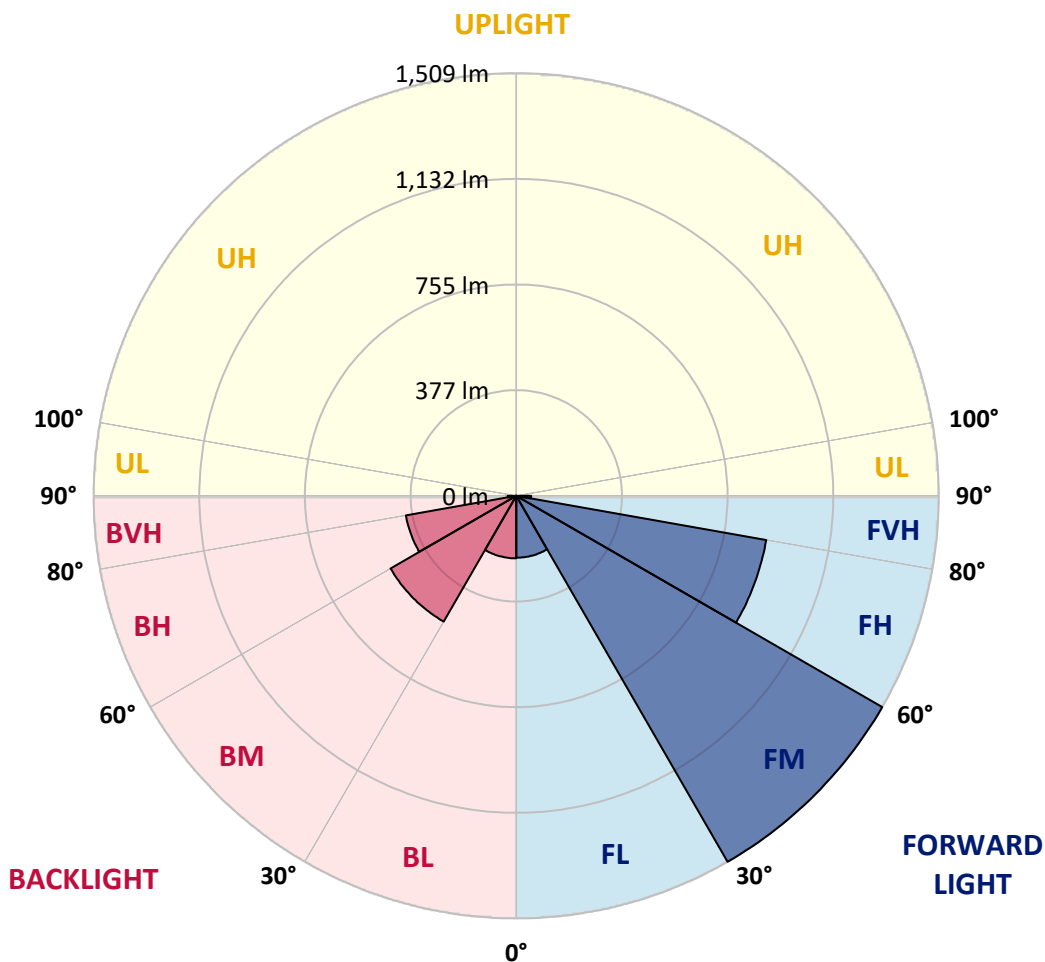


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.9	5.7			
FM (30°-60°)	1509.1	39.1			
FH (60°-80°)	906.4	23.5			G1/1800
FVH (80°-90°)	53.0	1.4			G1/100
BL (0°-30°)	223.3	5.8	B1/500		
BM (30°-60°)	518.4	13.4	B1/1000		
BH (60°-80°)	400.1	10.4	B1/500		G1/500
BVH (80°-90°)	30.8	0.8			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9
2.5°	385.9	386.8	387.8	385.9	387.8	388.7	386.8	386.8	387.8	385.9	385.9
5°	383.1	384.0	385.9	386.8	390.6	392.4	393.4	393.4	394.3	393.4	394.3
7.5°	375.6	375.6	379.3	381.2	386.8	393.4	397.1	402.7	402.7	403.7	406.5
10°	383.1	383.1	385.9	388.7	393.4	399.0	404.6	411.2	413.0	419.6	423.4
12.5°	394.3	396.2	399.9	403.7	409.3	415.9	420.5	427.1	428.0	434.6	442.1
15°	413.0	414.9	416.8	421.5	429.0	437.4	445.8	450.5	452.4	456.1	461.8
17.5°	441.1	443.0	444.0	446.8	452.4	463.6	475.8	479.5	481.4	481.4	486.1
20°	488.9	488.0	486.1	480.5	480.5	490.8	507.6	514.2	516.1	512.3	509.5
22.5°	544.2	543.2	535.7	529.2	524.5	526.4	543.2	554.5	553.5	546.0	534.8
25°	616.3	618.2	606.0	589.1	575.1	571.3	581.6	592.9	594.8	580.7	562.0
27.5°	702.5	699.7	693.1	665.9	638.8	621.9	627.5	639.7	640.6	625.7	595.7
30°	803.6	798.9	782.1	754.0	711.8	688.4	683.7	694.0	696.8	671.6	628.5
32.5°	916.0	911.3	889.8	846.7	800.8	761.5	746.5	760.5	758.7	729.6	669.7
35°	1051.8	1050.9	1011.5	958.2	900.1	847.6	827.0	827.0	832.7	789.6	722.1
37.5°	1233.5	1241.0	1182.9	1099.6	1018.1	947.9	913.2	911.3	912.3	865.4	781.1
40°	1397.4	1394.6	1360.9	1283.2	1164.2	1074.3	1022.8	1011.5	1014.4	954.4	857.9
42.5°	1492.0	1494.8	1486.4	1452.7	1348.7	1235.4	1147.4	1117.4	1118.3	1043.4	931.0
45°	1551.0	1553.8	1552.9	1569.8	1528.6	1421.8	1296.3	1227.0	1223.2	1144.5	1017.2
47.5°	1584.8	1586.6	1598.8	1633.5	1667.2	1642.8	1461.1	1348.7	1341.2	1239.1	1103.3
50°	1547.3	1548.2	1596.9	1679.4	1761.8	1835.8	1629.7	1469.6	1467.7	1344.0	1187.6
52.5°	1350.6	1367.5	1475.2	1647.5	1832.0	1972.5	1824.5	1611.9	1596.0	1443.3	1271.9
55°	1102.4	1109.9	1233.5	1452.7	1818.9	2056.8	1971.6	1765.5	1754.3	1553.8	1354.3
57.5°	860.8	868.2	1015.3	1197.9	1618.5	2052.1	2075.5	1931.3	1906.0	1650.3	1436.8
60°	555.4	578.8	749.3	974.1	1310.3	1909.8	2128.0	2090.5	2067.1	1745.9	1507.0
62.5°	377.5	381.2	488.0	722.1	980.6	1552.0	2124.2	2188.9	2185.1	1841.4	1577.3
65°	245.4	251.0	315.6	488.9	701.5	1030.3	2030.6	2236.6	2240.4	1900.4	1623.2
66°	207.9	211.7	261.3	411.2	614.4	816.7	1948.2	2232.9	2240.4	1927.6	1637.2
67.5°	180.8	183.6	208.9	303.5	502.0	587.3	1733.7	2183.3	2204.8	1952.8	1655.0
70°	155.5	159.2	182.6	207.0	358.7	342.8	1097.7	2055.9	2077.4	1965.0	1666.2
72.5°	128.3	131.1	154.5	187.3	260.4	230.4	484.2	1759.9	1814.2	1920.1	1648.4
75°	101.2	103.0	124.6	156.4	199.5	179.8	210.7	1290.7	1359.0	1692.5	1579.1
77.5°	78.7	79.6	96.5	121.8	182.6	139.6	130.2	628.5	795.2	1307.5	1390.9
80°	54.3	56.2	71.2	91.8	133.9	110.5	87.1	245.4	311.9	868.2	1054.6
82.5°	35.6	36.5	48.7	69.3	89.0	105.8	57.1	119.0	131.1	399.9	457.1
85°	24.4	24.4	34.7	43.1	60.9	70.2	37.5	62.8	68.4	151.7	55.3
87.5°	12.2	12.2	16.9	22.5	29.0	27.2	22.5	22.5	22.5	49.6	15.9
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°	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9
2.5°	386.8	386.8	387.8	388.7	389.6	389.6	390.6	390.6	389.6	390.6	391.5
5°	395.3	396.2	398.1	400.9	405.6	410.2	414.9	417.7	420.5	421.5	419.6
7.5°	408.4	410.2	416.8	424.3	431.8	443.0	449.6	453.3	455.2	457.1	455.2
10°	425.2	429.0	438.3	451.4	464.6	478.6	486.1	491.7	492.7	494.5	492.7
12.5°	444.9	451.4	465.5	484.2	500.2	514.2	519.8	516.1	507.6	503.9	503.0
15°	468.3	474.9	494.5	517.9	536.7	543.2	534.8	522.6	513.3	512.3	511.4
17.5°	488.9	498.3	525.4	549.8	567.6	561.0	538.6	531.1	528.3	532.0	531.1
20°	515.1	522.6	549.8	579.8	589.1	563.8	547.9	543.2	540.4	540.4	538.6
22.5°	536.7	542.3	575.1	607.9	602.2	565.7	554.5	545.1	535.7	534.8	532.0
25°	562.0	563.8	598.5	634.1	604.1	567.6	547.9	532.0	522.6	519.8	520.8
27.5°	585.4	590.1	620.0	651.9	599.4	557.3	525.4	504.8	490.8	489.9	489.9
30°	615.4	615.4	642.5	671.6	589.1	531.1	488.9	458.9	447.7	446.8	444.9
32.5°	649.1	643.5	669.7	685.6	566.7	495.5	439.3	405.6	387.8	384.0	381.2
35°	695.9	683.7	702.5	688.4	544.2	444.9	376.5	338.1	325.0	319.4	319.4
37.5°	750.2	732.4	752.1	680.0	509.5	385.9	311.0	281.9	267.9	259.4	262.3
40°	813.9	791.4	802.7	670.6	472.1	320.3	256.6	238.8	222.0	210.7	210.7
42.5°	888.8	851.4	859.8	661.3	418.7	263.2	222.0	209.8	196.7	185.5	188.3
45°	961.0	924.4	916.0	651.9	362.5	224.8	207.9	199.5	187.3	174.2	174.2
47.5°	1044.3	997.5	965.7	635.0	307.2	212.6	211.7	199.5	176.1	157.4	155.5
50°	1123.0	1079.9	1010.6	609.7	276.3	222.9	210.7	181.7	159.2	147.0	146.1
52.5°	1206.4	1161.4	1047.1	578.8	260.4	218.2	193.9	166.7	149.9	137.7	134.9
55°	1288.8	1265.4	1079.9	548.9	235.1	203.2	179.8	157.4	139.6	128.3	126.4
57.5°	1382.4	1373.1	1108.0	518.9	195.8	184.5	169.5	150.8	133.9	125.5	124.6
60°	1463.9	1496.7	1141.7	496.4	166.7	170.5	164.8	149.9	137.7	128.3	128.3
62.5°	1550.1	1615.7	1171.7	467.4	145.2	162.0	165.8	148.9	133.0	124.6	124.6
65°	1625.0	1737.4	1202.6	414.0	130.2	155.5	163.0	138.6	119.9	113.3	111.5
66°	1656.9	1772.1	1212.0	381.2	124.6	150.8	158.3	133.0	114.3	108.6	107.7
67.5°	1694.3	1826.4	1223.2	311.0	116.1	140.5	148.0	124.6	104.9	101.2	99.3
70°	1746.8	1837.6	1216.7	203.2	101.2	120.8	132.1	111.5	93.7	90.9	88.0
72.5°	1752.4	1760.8	1151.1	128.3	88.0	104.0	116.1	100.2	82.4	79.6	77.7
75°	1659.7	1560.4	974.1	91.8	77.7	91.8	102.1	87.1	68.4	64.6	62.8
77.5°	1417.1	1238.2	700.6	68.4	67.4	78.7	85.2	75.9	57.1	54.3	53.4
80°	994.7	840.1	351.2	51.5	53.4	65.6	71.2	63.7	47.8	44.0	42.1
82.5°	402.7	356.9	120.8	38.4	40.3	49.6	60.9	52.5	36.5	31.8	28.1
85°	45.9	77.7	52.5	26.2	27.2	33.7	41.2	31.8	21.5	17.8	15.0
87.5°	9.4	16.9	18.7	10.3	9.4	13.1	18.7	11.2	7.5	2.8	3.7
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)