

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: P594464

Luminaire Tested: **ISS-PA1A-735-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594464  
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-PA1A-735-U-T2U  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 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: 3951 lumens  
Efficiency: N/A  
Efficacy: 136.7 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

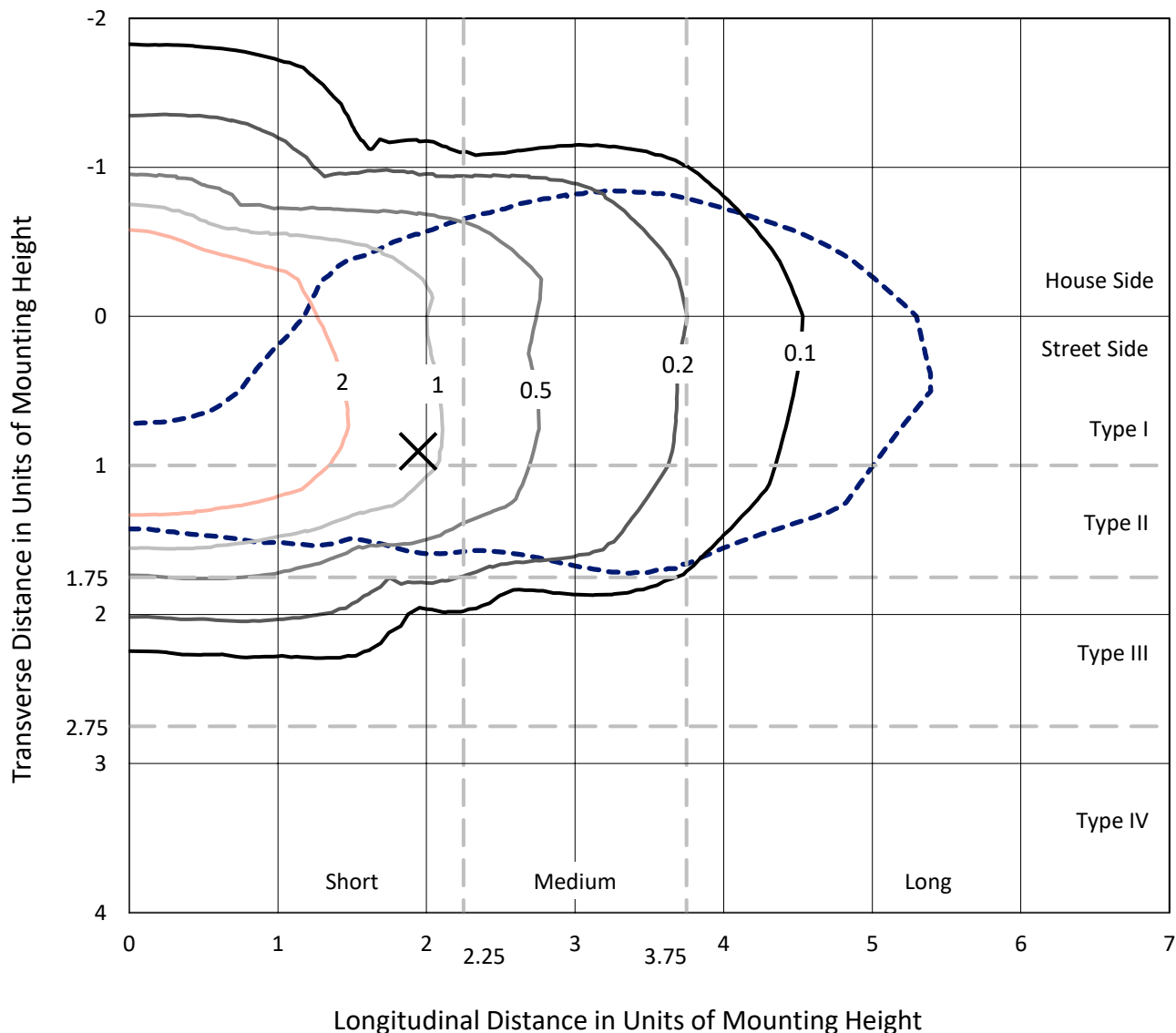
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

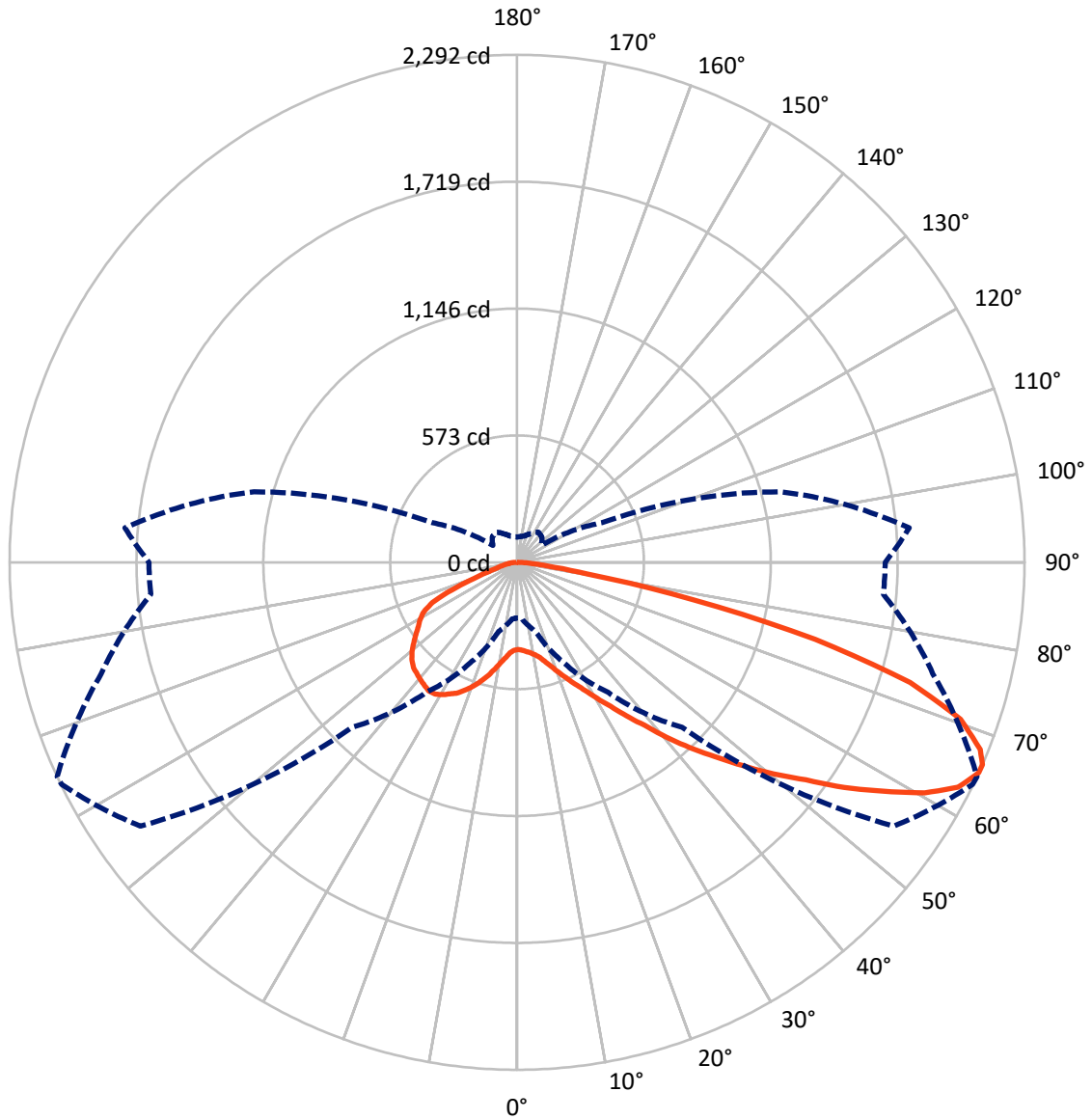
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.4 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
<b>House Side</b>	Lumens	1199.7	0.0	1199.7
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	2751.3	0.0	2751.3
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	3951.0	0.0	3951.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.2	1.0
10°-20°	140.0	3.5
20°-30°	274.2	6.9
30°-40°	448.1	11.3
40°-50°	711.3	18.0
50°-60°	914.8	23.2
60°-70°	825.0	20.9
70°-80°	511.7	13.0
80°-90°	85.7	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°	3951.0	100.0
0°-180°	3951.0	100.0

**Coefficient of Utilization**



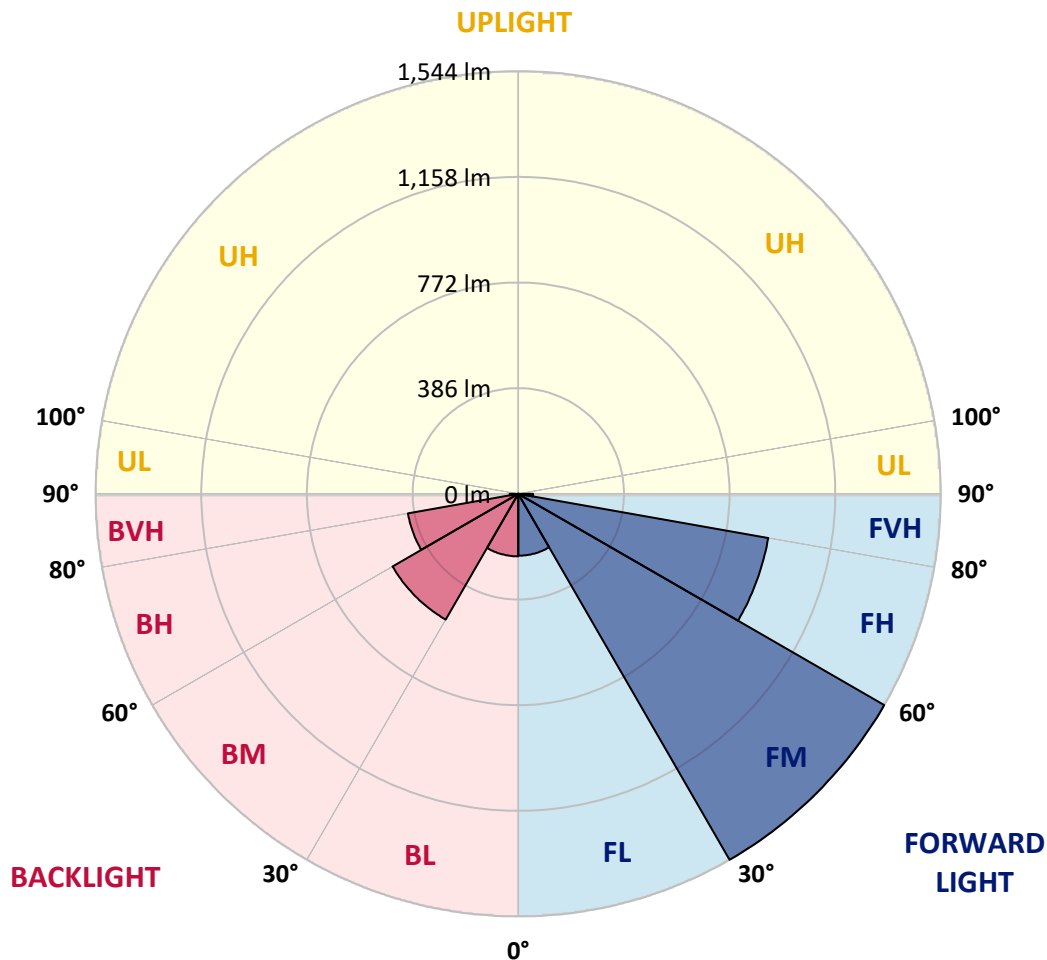
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.9	5.7			
FM (30°-60°)	1543.8	39.1			
FH (60°-80°)	927.3	23.5			G1/1800
FVH (80°-90°)	54.2	1.4			G1/100
BL (0°-30°)	228.5	5.8	B1/500		
BM (30°-60°)	530.3	13.4	B1/1000		
BH (60°-80°)	409.3	10.4	B1/500		G1/500
BVH (80°-90°)	31.5	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°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	394.8	395.7	396.7	394.8	396.7	397.7	395.7	395.7	396.7	394.8	394.8
5°	391.9	392.9	394.8	395.7	399.6	401.5	402.4	402.4	403.4	402.4	403.4
7.5°	384.2	384.2	388.1	390.0	395.7	402.4	406.3	412.0	412.0	413.0	415.9
10°	391.9	391.9	394.8	397.7	402.4	408.2	413.9	420.7	422.6	429.3	433.1
12.5°	403.4	405.3	409.2	413.0	418.7	425.4	430.2	436.9	437.9	444.6	452.3
15°	422.6	424.5	426.4	431.2	438.9	447.5	456.1	460.9	462.8	466.6	472.4
17.5°	451.3	453.2	454.2	457.1	462.8	474.3	486.8	490.6	492.5	492.5	497.3
20°	500.2	499.2	497.3	491.6	491.6	502.1	519.3	526.1	528.0	524.1	521.3
22.5°	556.7	555.8	548.1	541.4	536.6	538.5	555.8	567.3	566.3	558.6	547.1
25°	630.5	632.4	620.0	602.7	588.3	584.5	595.0	606.5	608.5	594.1	574.9
27.5°	718.7	715.8	709.1	681.3	653.5	636.2	642.0	654.5	655.4	640.1	609.4
30°	822.1	817.3	800.1	771.4	728.2	704.3	699.5	710.0	712.9	687.0	643.0
32.5°	937.1	932.3	910.3	866.2	819.3	779.0	763.7	778.1	776.1	746.4	685.1
35°	1076.1	1075.1	1034.9	980.2	920.8	867.2	846.1	846.1	851.8	807.8	738.8
37.5°	1262.0	1269.6	1210.2	1124.9	1041.6	969.7	934.2	932.3	933.3	885.4	799.1
40°	1429.6	1426.8	1392.3	1312.7	1191.0	1099.1	1046.4	1034.9	1037.7	976.4	877.7
42.5°	1526.4	1529.3	1520.7	1486.2	1379.8	1263.9	1173.8	1143.1	1144.1	1067.4	952.5
45°	1586.8	1589.7	1588.7	1605.9	1563.8	1454.5	1326.2	1255.2	1251.4	1170.9	1040.6
47.5°	1621.3	1623.2	1635.6	1671.1	1705.6	1680.7	1494.8	1379.8	1372.1	1267.7	1128.8
50°	1582.9	1583.9	1633.7	1718.1	1802.4	1878.1	1667.3	1503.4	1501.5	1375.0	1215.0
52.5°	1381.7	1399.0	1509.2	1685.5	1874.2	2018.0	1866.6	1649.1	1632.8	1476.6	1301.2
55°	1127.8	1135.5	1262.0	1486.2	1860.8	2104.2	2017.0	1806.2	1794.7	1589.7	1385.6
57.5°	880.6	888.3	1038.7	1225.5	1655.8	2099.4	2123.4	1975.8	1949.9	1688.4	1469.9
60°	568.2	592.2	766.6	996.5	1340.5	1953.8	2177.0	2138.7	2114.7	1786.1	1541.7
62.5°	386.2	390.0	499.2	738.8	1003.2	1587.7	2173.2	2239.3	2235.5	1883.8	1613.6
65°	251.0	256.8	322.9	500.2	717.7	1054.0	2077.4	2288.2	2292.0	1944.2	1660.6
66°	212.7	216.6	267.3	420.7	628.6	835.6	1993.1	2284.4	2292.0	1972.0	1674.9
67.5°	184.9	187.8	213.7	310.5	513.6	600.8	1773.6	2233.6	2255.6	1997.8	1693.1
70°	159.1	162.9	186.8	211.8	367.0	350.7	1123.0	2103.3	2125.3	2010.3	1704.6
72.5°	131.3	134.1	158.1	191.6	266.4	235.7	495.4	1800.5	1856.0	1964.3	1686.4
75°	103.5	105.4	127.4	160.0	204.1	184.0	215.6	1320.4	1390.3	1731.5	1615.5
77.5°	80.5	81.4	98.7	124.6	186.8	142.8	133.2	643.0	813.5	1337.6	1422.9
80°	55.6	57.5	72.8	93.9	137.0	113.1	89.1	251.0	319.1	888.3	1078.9
82.5°	36.4	37.4	49.8	70.9	91.0	108.3	58.5	121.7	134.1	409.2	467.6
85°	24.9	24.9	35.5	44.1	62.3	71.9	38.3	64.2	69.9	155.2	56.5
87.5°	12.5	12.5	17.2	23.0	29.7	27.8	23.0	23.0	23.0	50.8	16.3
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°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	395.7	395.7	396.7	397.7	398.6	398.6	399.6	399.6	398.6	399.6	400.5
5°	404.4	405.3	407.2	410.1	414.9	419.7	424.5	427.4	430.2	431.2	429.3
7.5°	417.8	419.7	426.4	434.1	441.7	453.2	459.9	463.8	465.7	467.6	465.7
10°	435.0	438.9	448.4	461.9	475.3	489.6	497.3	503.1	504.0	505.9	504.0
12.5°	455.1	461.9	476.2	495.4	511.7	526.1	531.8	528.0	519.3	515.5	514.6
15°	479.1	485.8	505.9	529.9	549.0	555.8	547.1	534.7	525.1	524.1	523.2
17.5°	500.2	509.8	537.6	562.5	580.7	574.0	551.0	543.3	540.4	544.3	543.3
20°	527.0	534.7	562.5	593.1	602.7	576.8	560.5	555.8	552.9	552.9	551.0
22.5°	549.0	554.8	588.3	621.9	616.1	578.8	567.3	557.7	548.1	547.1	544.3
25°	574.9	576.8	612.3	648.7	618.0	580.7	560.5	544.3	534.7	531.8	532.8
27.5°	598.9	603.7	634.3	666.9	613.2	570.1	537.6	516.5	502.1	501.1	501.1
30°	629.5	629.5	657.3	687.0	602.7	543.3	500.2	469.5	458.0	457.1	455.1
32.5°	664.0	658.3	685.1	701.4	579.7	506.9	449.4	414.9	396.7	392.9	390.0
35°	711.9	699.5	718.7	704.3	556.7	455.1	385.2	345.9	332.5	326.7	326.7
37.5°	767.5	749.3	769.4	695.7	521.3	394.8	318.1	288.4	274.0	265.4	268.3
40°	832.7	809.7	821.2	686.1	482.9	327.7	262.5	244.3	227.1	215.6	215.6
42.5°	909.3	871.0	879.6	676.5	428.3	269.3	227.1	214.6	201.2	189.7	192.6
45°	983.1	945.7	937.1	666.9	370.8	230.0	212.7	204.1	191.6	178.2	178.2
47.5°	1068.4	1020.5	987.9	649.7	314.3	217.5	216.6	204.1	180.1	161.0	159.1
50°	1148.9	1104.8	1033.9	623.8	282.7	228.1	215.6	185.9	162.9	150.4	149.5
52.5°	1234.2	1188.2	1071.3	592.2	266.4	223.3	198.3	170.6	153.3	140.9	138.0
55°	1318.5	1294.5	1104.8	561.5	240.5	207.9	184.0	161.0	142.8	131.3	129.4
57.5°	1414.3	1404.7	1133.6	530.8	200.3	188.8	173.4	154.3	137.0	128.4	127.4
60°	1497.7	1531.2	1168.0	507.8	170.6	174.4	168.6	153.3	140.9	131.3	131.3
62.5°	1585.8	1652.9	1198.7	478.1	148.5	165.8	169.6	152.4	136.1	127.4	127.4
65°	1662.5	1777.5	1230.3	423.5	133.2	159.1	166.7	141.8	122.6	115.9	114.0
66°	1695.1	1812.9	1239.9	390.0	127.4	154.3	161.9	136.1	116.9	111.2	110.2
67.5°	1733.4	1868.5	1251.4	318.1	118.8	143.7	151.4	127.4	107.3	103.5	101.6
70°	1787.0	1880.0	1244.7	207.9	103.5	123.6	135.1	114.0	95.8	92.9	90.1
72.5°	1792.8	1801.4	1177.6	131.3	90.1	106.4	118.8	102.5	84.3	81.4	79.5
75°	1697.9	1596.4	996.5	93.9	79.5	93.9	104.4	89.1	69.9	66.1	64.2
77.5°	1449.8	1266.7	716.7	69.9	69.0	80.5	87.2	77.6	58.5	55.6	54.6
80°	1017.6	859.5	359.3	52.7	54.6	67.1	72.8	65.2	48.9	45.0	43.1
82.5°	412.0	365.1	123.6	39.3	41.2	50.8	62.3	53.7	37.4	32.6	28.7
85°	47.0	79.5	53.7	26.8	27.8	34.5	42.2	32.6	22.0	18.2	15.3
87.5°	9.6	17.2	19.2	10.5	9.6	13.4	19.2	11.5	7.7	2.9	3.8
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)