

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: P594553

Luminaire Tested: **ISS-PA1B-735-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1B-735-U-T2U-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3589 lumens  
Efficiency: N/A  
Efficacy: 98.6 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

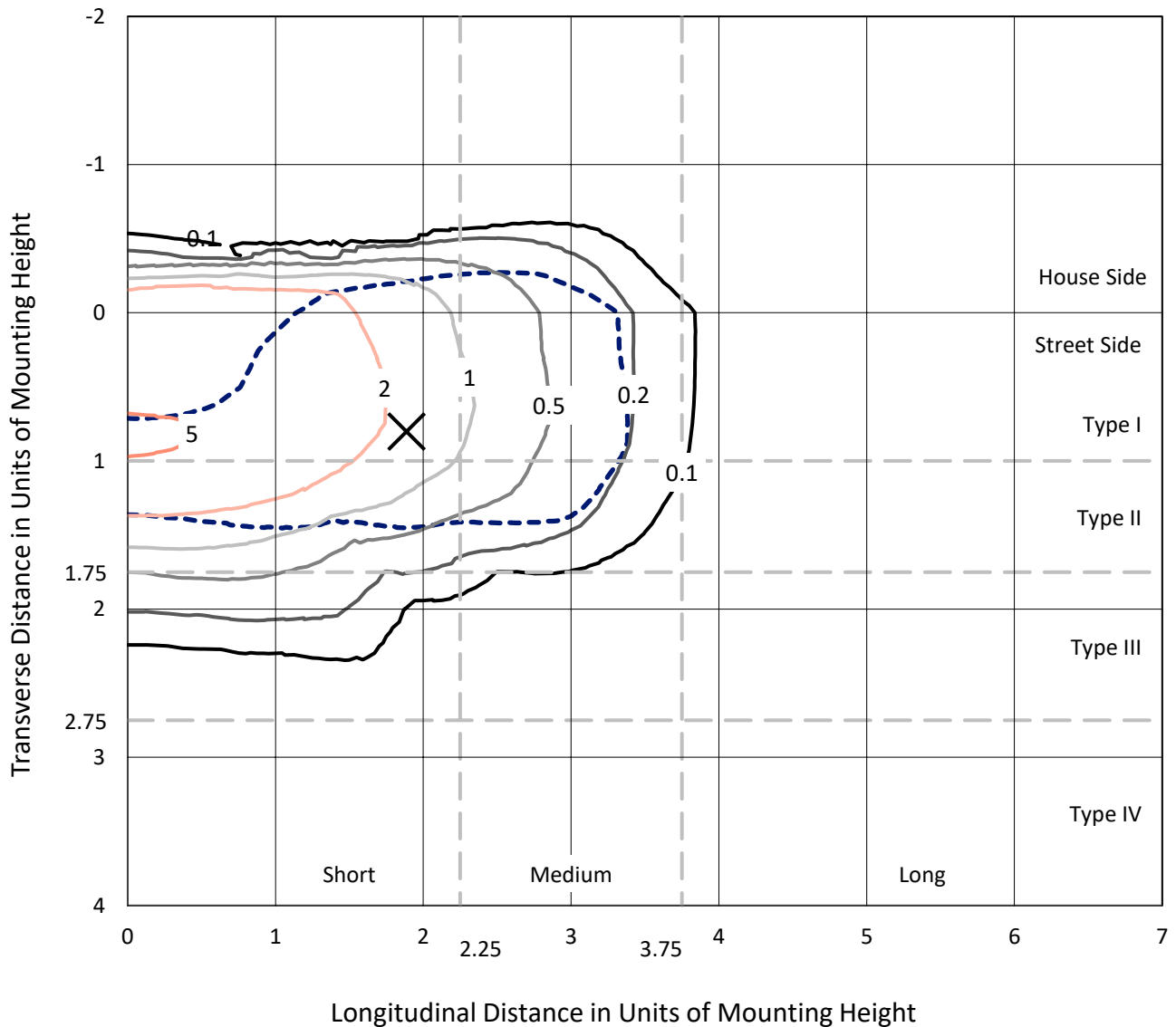
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

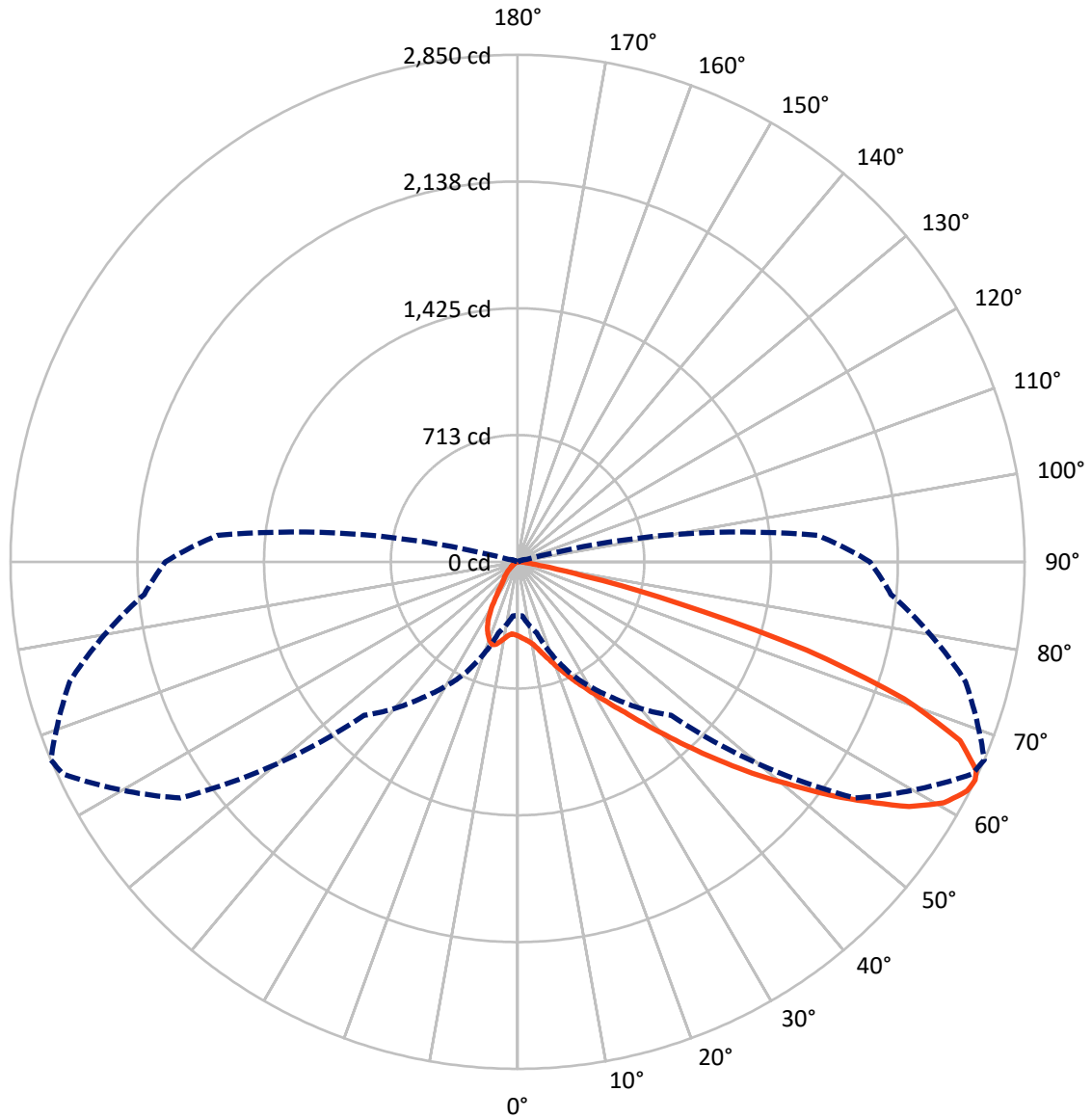
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	459.1	0.0	459.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	3129.9	0.0	3129.9
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	3589.0	0.0	3589.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.6	1.1
10°-20°	116.8	3.3
20°-30°	211.8	5.9
30°-40°	405.8	11.3
40°-50°	748.0	20.8
50°-60°	966.1	26.9
60°-70°	791.3	22.0
70°-80°	290.9	8.1
80°-90°	18.7	0.5
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°	3589.0	100.0
0°-180°	3589.0	100.0

**Coefficient of Utilization**



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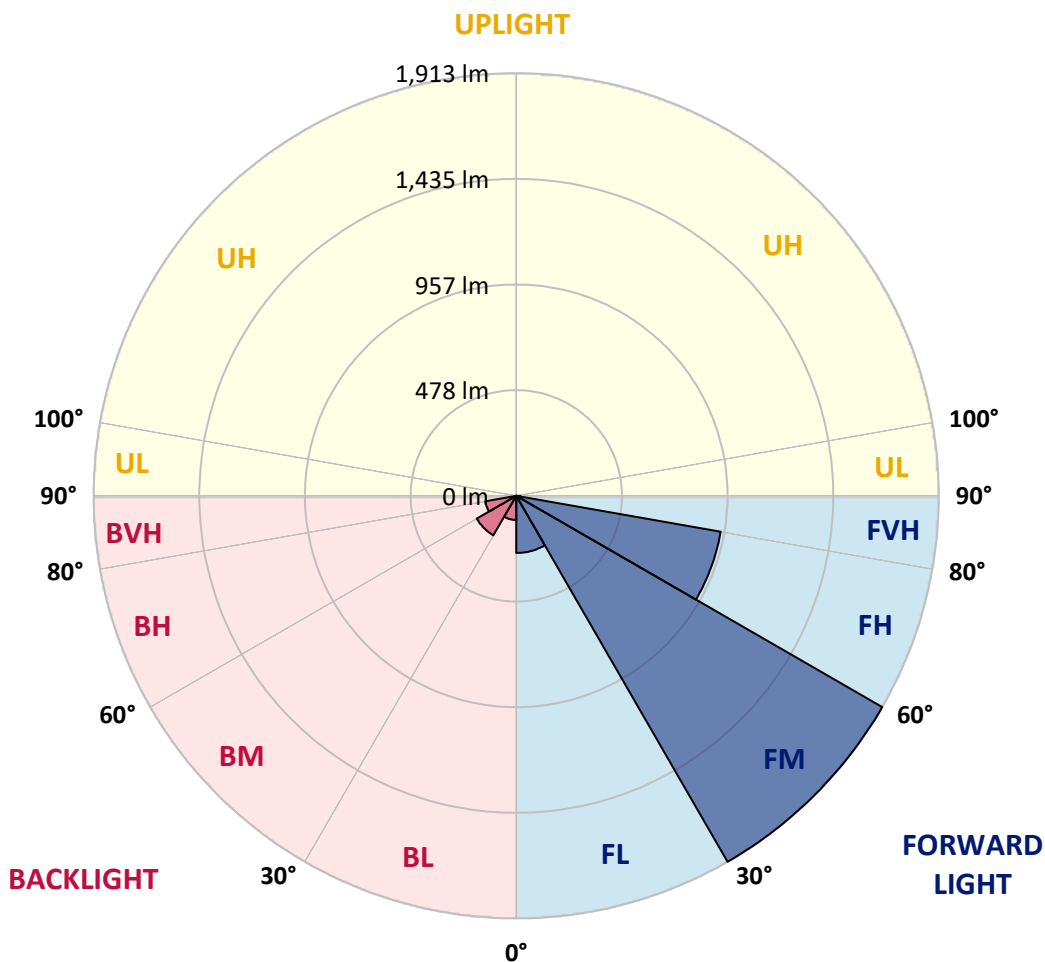
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.8	7.2			
FM (30°-60°)	1913.5	53.3			
FH (60°-80°)	939.8	26.2			G1/1800
FVH (80°-90°)	17.9	0.5			G1/100
BL (0°-30°)	109.4	3.0	B0/110		
BM (30°-60°)	206.4	5.8	B0/220		
BH (60°-80°)	142.4	4.0	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
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°	65°	67°	75°	85°
0°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	431.8	431.8	434.3	433.1	433.1	430.6	426.9	428.1	426.9	425.7	422.0
5°	424.4	425.7	426.9	429.4	434.3	436.8	436.8	438.0	438.0	436.8	431.8
7.5°	420.7	423.2	425.7	428.1	434.3	438.0	444.2	451.6	451.6	452.8	447.9
10°	434.3	436.8	440.5	444.2	450.3	456.5	461.4	470.1	470.1	472.5	471.3
12.5°	462.7	462.7	463.9	466.4	475.0	482.4	491.1	498.5	499.7	500.9	497.2
15°	497.2	497.2	498.5	498.5	503.4	514.5	530.5	537.9	536.7	535.5	528.1
17.5°	536.7	536.7	536.7	537.9	540.4	546.6	565.1	579.9	578.7	577.4	562.6
20°	573.7	576.2	578.7	579.9	582.4	587.3	607.0	624.3	628.0	623.1	597.2
22.5°	615.7	616.9	618.1	621.8	628.0	630.5	650.2	676.1	679.8	673.7	639.1
25°	657.6	660.1	663.8	668.7	674.9	687.2	700.8	735.3	739.0	731.6	684.8
27.5°	750.1	748.9	737.8	729.2	730.4	739.0	757.6	794.6	798.3	790.9	730.4
30°	908.1	893.3	872.3	834.0	797.0	800.7	826.6	862.4	868.6	858.7	781.0
32.5°	1132.6	1117.8	1066.0	982.1	900.7	873.5	906.8	941.4	948.8	937.7	840.2
35°	1351.0	1347.3	1298.0	1196.8	1058.6	983.3	992.0	1036.4	1038.9	1025.3	914.2
37.5°	1621.2	1607.6	1539.8	1426.3	1263.4	1128.9	1104.3	1146.2	1152.4	1136.3	1004.3
40°	1800.1	1795.2	1754.5	1674.3	1499.1	1330.0	1241.2	1281.9	1280.7	1257.2	1108.0
42.5°	1903.8	1906.2	1903.8	1865.5	1765.6	1571.9	1422.6	1425.0	1428.7	1404.1	1227.6
45°	1974.1	1974.1	1977.8	2008.6	1970.4	1860.6	1643.4	1587.9	1592.8	1554.6	1352.2
47.5°	1972.8	1980.2	2000.0	2071.5	2123.4	2129.5	1919.8	1777.9	1775.4	1717.4	1480.6
50°	1839.6	1834.7	1916.1	2076.5	2231.9	2351.6	2181.4	1979.0	1958.0	1886.5	1613.8
52.5°	1539.8	1555.8	1691.5	1927.2	2257.9	2502.1	2407.1	2198.6	2171.5	2054.3	1731.0
55°	1278.2	1295.5	1427.5	1658.2	2117.2	2555.2	2558.9	2431.8	2377.5	2199.9	1851.9
57.5°	959.9	993.2	1188.1	1405.3	1808.7	2423.2	2613.2	2655.1	2595.9	2340.5	1950.6
60°	613.2	632.9	851.3	1119.1	1465.8	2077.7	2602.1	2784.7	2752.6	2468.8	2033.3
62.5°	401.0	412.1	562.6	842.7	1116.6	1565.7	2470.1	2836.5	2836.5	2555.2	2095.0
64°	302.3	304.7	412.1	684.8	931.5	1220.2	2314.6	2820.5	2850.1	2607.0	2107.3
65°	239.4	240.6	322.0	568.8	836.5	1000.6	2178.9	2785.9	2834.0	2626.8	2114.7
67.5°	167.8	171.5	208.5	328.2	599.6	577.4	1615.0	2623.1	2682.3	2632.9	2104.9
70°	145.6	150.5	175.2	214.7	428.1	335.6	858.7	2235.6	2306.0	2452.8	1959.3
72.5°	111.0	117.2	146.8	181.4	301.0	227.0	331.9	1587.9	1698.9	1896.3	1617.5
75°	80.2	82.7	108.6	148.1	211.0	175.2	143.1	819.2	931.5	1119.1	1005.5
77.5°	50.6	54.3	74.0	111.0	188.8	133.3	85.1	298.6	376.3	487.4	439.2
80°	29.6	30.8	44.4	76.5	127.1	98.7	54.3	106.1	128.3	181.4	117.2
82.5°	17.3	18.5	28.4	51.8	82.7	76.5	34.5	54.3	60.5	69.1	24.7
85°	6.2	6.2	19.7	30.8	44.4	38.2	19.7	28.4	30.8	38.2	7.4
87.5°	1.2	1.2	9.9	16.0	16.0	6.2	9.9	12.3	14.8	21.0	2.5
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°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	420.7	417.0	413.3	408.4	404.7	397.3	393.6	388.6	387.4	384.9	383.7
5°	430.6	424.4	415.8	403.5	396.0	384.9	377.5	370.1	368.9	366.4	365.2
7.5°	444.2	438.0	426.9	413.3	401.0	389.9	381.2	370.1	359.0	350.4	350.4
10°	466.4	459.0	444.2	431.8	417.0	393.6	352.9	315.9	292.4	277.6	272.7
12.5°	493.5	483.6	467.6	452.8	424.4	350.4	287.5	239.4	199.9	181.4	177.7
15°	521.9	513.3	497.2	475.0	389.9	292.4	209.7	135.7	97.5	80.2	82.7
17.5°	552.7	540.4	521.9	477.5	343.0	218.4	112.3	69.1	59.2	56.8	56.8
20°	584.8	568.8	550.3	450.3	282.5	125.8	64.2	51.8	48.1	44.4	45.7
22.5°	619.4	599.6	571.2	409.6	202.3	67.9	49.4	41.9	37.0	35.8	35.8
25°	656.4	628.0	592.2	362.7	117.2	51.8	40.7	33.3	29.6	28.4	27.1
27.5°	695.9	660.1	597.2	301.0	66.6	43.2	32.1	25.9	22.2	21.0	21.0
30°	731.6	692.2	586.1	223.3	50.6	35.8	25.9	19.7	17.3	17.3	17.3
32.5°	779.8	727.9	551.5	139.4	40.7	28.4	19.7	16.0	13.6	13.6	13.6
35°	842.7	781.0	517.0	74.0	33.3	23.4	16.0	12.3	11.1	11.1	11.1
37.5°	929.1	851.3	486.1	46.9	27.1	18.5	12.3	9.9	8.6	8.6	8.6
40°	1017.9	935.2	442.9	35.8	22.2	14.8	9.9	7.4	6.2	6.2	7.4
42.5°	1128.9	1032.7	393.6	30.8	18.5	12.3	7.4	4.9	3.7	4.9	4.9
45°	1241.2	1135.1	324.5	25.9	16.0	9.9	4.9	2.5	2.5	3.7	3.7
47.5°	1357.2	1243.7	251.7	22.2	13.6	7.4	3.7	1.2	1.2	2.5	2.5
50°	1476.9	1351.0	187.5	19.7	11.1	6.2	2.5	1.2	0.0	1.2	1.2
52.5°	1596.5	1454.6	145.6	17.3	9.9	4.9	1.2	0.0	0.0	0.0	1.2
55°	1707.6	1548.4	116.0	14.8	8.6	3.7	1.2	0.0	0.0	0.0	0.0
57.5°	1801.3	1617.5	92.5	13.6	7.4	2.5	1.2	0.0	0.0	0.0	0.0
60°	1890.2	1671.8	71.6	11.1	6.2	2.5	1.2	0.0	0.0	0.0	0.0
62.5°	1953.1	1692.8	58.0	9.9	4.9	2.5	0.0	0.0	0.0	0.0	0.0
64°	1980.2	1695.2	50.6	8.6	4.9	2.5	1.2	0.0	0.0	0.0	0.0
65°	1996.3	1687.8	46.9	8.6	4.9	2.5	1.2	0.0	0.0	0.0	0.0
67.5°	2000.0	1647.1	35.8	7.4	3.7	1.2	1.2	0.0	0.0	0.0	0.0
70°	1891.4	1505.2	25.9	4.9	2.5	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1580.5	1149.9	17.3	3.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0
75°	987.0	497.2	9.9	3.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	408.4	150.5	6.2	2.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0
80°	93.8	35.8	2.5	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	22.2	6.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	4.9	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
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)