

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: P594713

Luminaire Tested: **ISS-PA1D-735-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594713  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1D-735-U-T2R-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6711 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G2

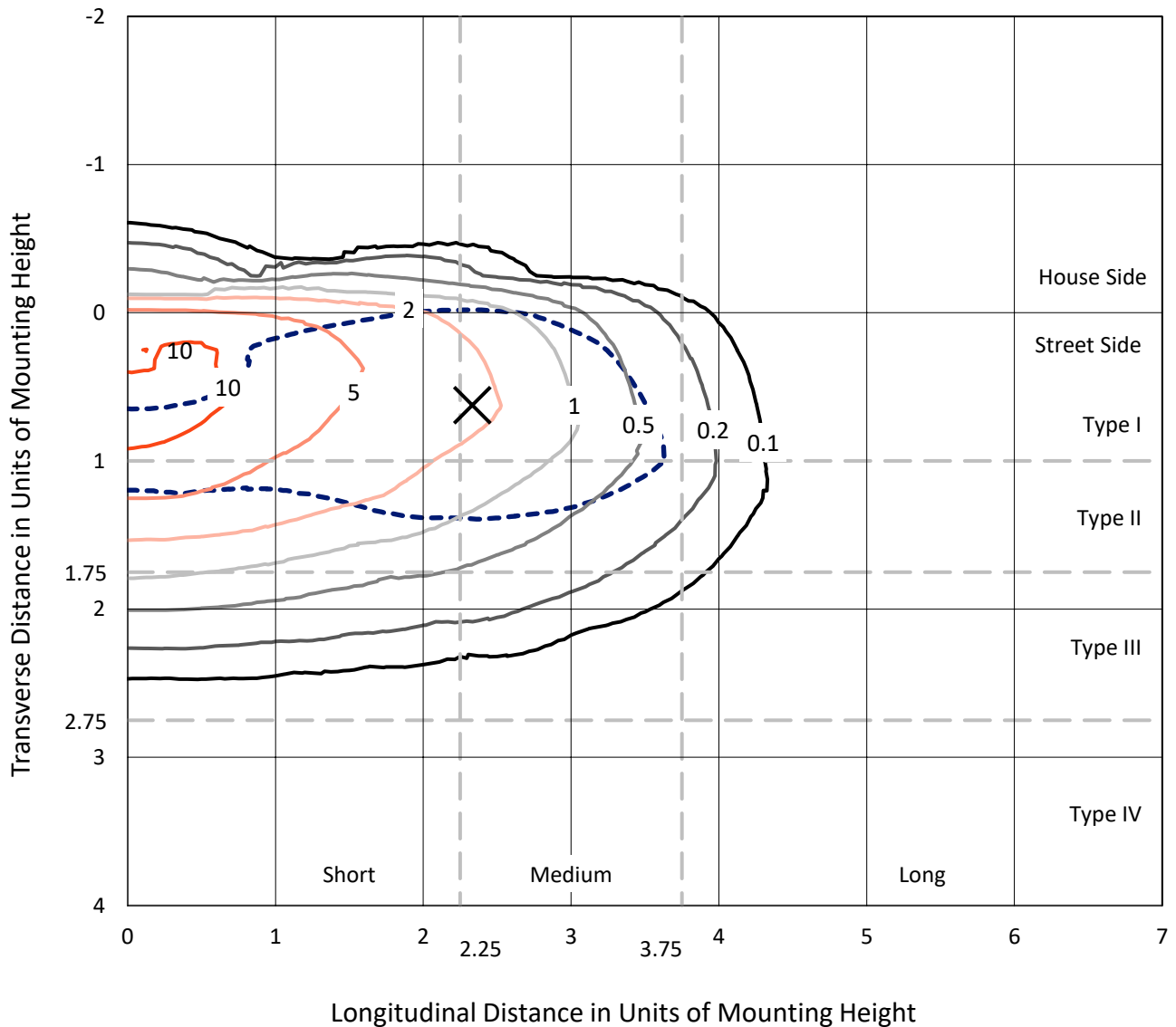
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

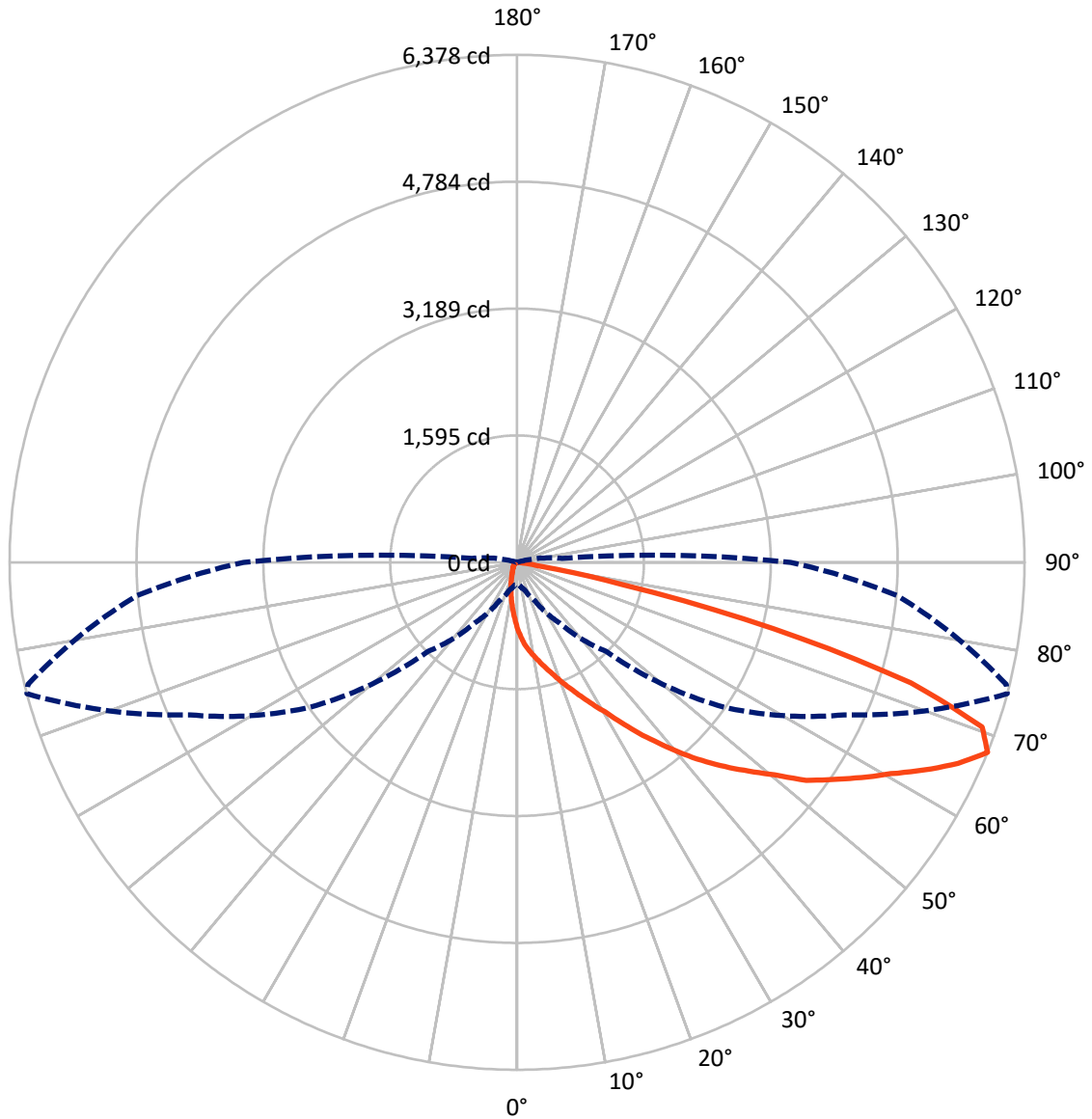
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	338.3	0.0	338.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	6372.7	0.0	6372.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	6711.0	0.0	6711.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.2	1.1
10°-20°	242.8	3.6
20°-30°	488.0	7.3
30°-40°	923.0	13.8
40°-50°	1380.8	20.6
50°-60°	1594.2	23.8
60°-70°	1413.1	21.1
70°-80°	571.2	8.5
80°-90°	22.8	0.3
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°	6711.0	100.0
0°-180°	6711.0	100.0

**Coefficient of Utilization**



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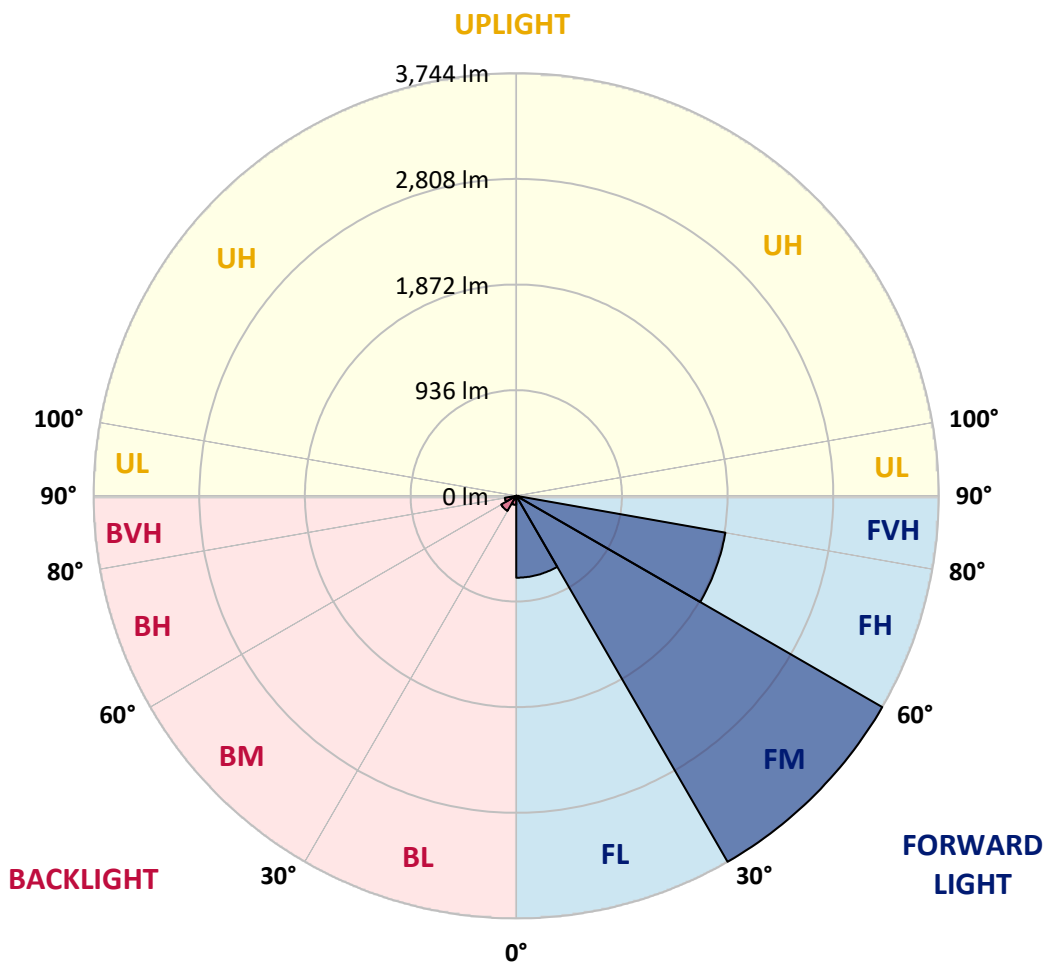
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.5	10.8			
FM (30°-60°)	3743.7	55.8			
FH (60°-80°)	1881.7	28.0			G2/5000
FVH (80°-90°)	21.8	0.3			G1/100
BL (0°-30°)	80.4	1.2	B0/110		
BM (30°-60°)	154.3	2.3	B0/220		
BH (60°-80°)	102.6	1.5	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	834.0	834.0	834.0	834.0	834.0	834.0	834.0	834.0	834.0	834.0	834.0
2.5°	1160.4	1164.4	1156.3	1138.2	1122.1	1083.8	1053.6	999.2	940.8	940.8	870.3
5°	1297.4	1293.3	1289.3	1275.2	1263.1	1230.9	1190.6	1132.2	1041.5	1033.5	916.6
7.5°	1363.8	1359.8	1351.8	1345.7	1345.7	1323.6	1285.3	1224.8	1124.1	1116.1	958.9
10°	1442.4	1434.4	1434.4	1418.2	1414.2	1388.0	1367.9	1315.5	1204.7	1194.6	1007.3
12.5°	1535.1	1527.0	1529.0	1514.9	1508.9	1480.7	1452.5	1402.1	1291.3	1281.2	1063.7
15°	1587.5	1583.4	1595.5	1597.5	1601.6	1577.4	1551.2	1498.8	1388.0	1373.9	1130.2
17.5°	1617.7	1617.7	1631.8	1658.0	1688.2	1674.1	1653.9	1611.6	1486.7	1478.7	1200.7
20°	1676.1	1670.1	1694.2	1718.4	1756.7	1768.8	1762.7	1730.5	1605.6	1581.4	1277.2
22.5°	1772.8	1764.7	1786.9	1817.1	1863.4	1867.5	1871.5	1855.4	1726.5	1702.3	1357.8
25°	2000.4	1980.3	1960.1	1956.1	1974.2	1990.4	1978.3	1990.4	1863.4	1841.3	1444.4
27.5°	2443.6	2409.4	2312.7	2205.9	2131.4	2145.5	2107.2	2129.4	2020.6	1992.4	1525.0
30°	2868.7	2834.5	2755.9	2566.5	2395.3	2318.7	2262.3	2254.3	2181.7	2149.5	1617.7
32.5°	3164.8	3142.7	3090.3	2963.4	2749.8	2554.4	2445.6	2407.4	2397.3	2346.9	1736.5
35°	3366.3	3346.1	3309.9	3207.1	3050.0	2832.4	2645.1	2560.5	2637.0	2576.6	1871.5
37.5°	3487.2	3473.1	3432.8	3362.3	3277.7	3134.6	2892.9	2757.9	2878.8	2822.4	2044.8
40°	3575.8	3539.5	3511.3	3456.9	3428.7	3382.4	3174.9	2963.4	3140.7	3082.2	2216.0
42.5°	3583.9	3567.7	3545.6	3513.4	3517.4	3547.6	3475.1	3201.1	3404.6	3350.2	2397.3
45°	3581.8	3565.7	3549.6	3517.4	3537.5	3650.3	3716.8	3450.9	3662.4	3606.0	2588.7
47.5°	3523.4	3511.3	3515.4	3515.4	3541.6	3694.7	3904.2	3704.7	3920.3	3865.9	2820.4
50°	3317.9	3330.0	3410.6	3452.9	3499.3	3696.7	4035.1	3970.7	4198.3	4160.0	3044.0
52.5°	2667.2	2735.7	3062.1	3285.7	3420.7	3656.4	4119.7	4250.7	4550.8	4492.4	3297.8
55°	2038.7	2042.7	2357.0	2876.8	3265.6	3583.9	4168.1	4440.0	4818.8	4786.5	3521.4
57.5°	1653.9	1651.9	1807.0	2274.4	2862.7	3469.0	4180.2	4579.0	5102.8	5042.4	3779.3
60°	1351.8	1343.7	1436.4	1724.4	2338.9	3199.1	4135.8	4691.9	5394.9	5372.8	4049.2
62.5°	977.1	985.1	1108.0	1331.6	1803.0	2701.5	4041.2	4726.1	5747.5	5725.3	4351.4
65°	562.1	586.2	721.2	958.9	1382.0	2113.3	3771.2	4699.9	6092.0	6089.9	4631.4
67.5°	282.0	284.0	356.6	535.9	928.7	1581.4	3174.9	4534.7	6378.0	6333.7	4792.6
70°	181.3	185.3	209.5	276.0	513.7	1095.9	2425.5	4067.4	6198.7	6182.6	4556.9
72.5°	139.0	143.0	163.2	181.3	267.9	622.5	1641.8	3160.8	5175.3	5131.0	3553.6
75°	108.8	110.8	130.9	147.1	179.3	292.1	823.9	1970.2	3334.1	3219.2	2022.6
77.5°	86.6	88.6	98.7	116.8	137.0	163.2	243.8	886.4	1355.8	1210.7	656.7
80°	56.4	58.4	74.5	90.7	116.8	106.8	94.7	255.8	290.1	261.9	116.8
82.5°	32.2	34.2	50.4	72.5	88.6	60.4	54.4	74.5	68.5	66.5	36.3
85°	10.1	10.1	34.2	50.4	40.3	18.1	34.2	26.2	22.2	20.1	12.1
87.5°	2.0	2.0	16.1	18.1	6.0	2.0	4.0	6.0	8.1	10.1	6.0
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°	834.0	834.0	834.0	834.0	834.0	834.0	834.0	834.0	834.0	834.0	834.0
2.5°	836.0	795.7	721.2	656.7	594.3	539.9	501.6	467.4	443.2	437.2	427.1
5°	842.1	763.5	620.5	499.6	394.8	310.2	261.9	229.7	213.5	203.5	203.5
7.5°	848.1	731.3	525.8	364.6	249.8	189.4	159.1	145.0	139.0	137.0	135.0
10°	860.2	707.1	445.2	261.9	171.2	143.0	130.9	124.9	120.9	118.9	118.9
12.5°	880.4	687.0	370.7	193.4	141.0	126.9	118.9	110.8	106.8	104.8	104.8
15°	906.5	672.9	306.2	155.1	128.9	114.8	104.8	96.7	90.7	88.6	88.6
17.5°	942.8	662.8	251.8	137.0	118.9	102.7	90.7	82.6	76.6	74.5	74.5
20°	979.1	662.8	207.5	126.9	108.8	90.7	78.6	68.5	62.5	60.4	60.4
22.5°	1027.4	660.8	173.3	116.8	96.7	78.6	66.5	54.4	50.4	48.3	48.3
25°	1067.7	660.8	149.1	106.8	84.6	68.5	54.4	44.3	40.3	38.3	38.3
27.5°	1116.1	654.7	126.9	94.7	72.5	56.4	44.3	36.3	32.2	30.2	30.2
30°	1158.4	646.7	112.8	84.6	62.5	46.3	36.3	28.2	26.2	26.2	26.2
32.5°	1228.9	640.6	100.7	72.5	52.4	38.3	28.2	22.2	20.1	20.1	20.1
35°	1313.5	640.6	92.7	62.5	44.3	32.2	22.2	18.1	16.1	16.1	16.1
37.5°	1424.3	646.7	82.6	54.4	36.3	26.2	18.1	14.1	12.1	12.1	12.1
40°	1541.1	660.8	74.5	48.3	32.2	20.1	14.1	10.1	8.1	10.1	10.1
42.5°	1680.1	674.9	66.5	42.3	26.2	16.1	10.1	6.0	4.0	6.0	6.0
45°	1817.1	689.0	62.5	36.3	22.2	12.1	6.0	4.0	2.0	4.0	4.0
47.5°	1986.3	723.2	58.4	32.2	18.1	10.1	4.0	2.0	0.0	2.0	2.0
50°	2181.7	761.5	52.4	26.2	14.1	8.1	4.0	0.0	0.0	0.0	0.0
52.5°	2369.1	793.7	46.3	22.2	12.1	6.0	2.0	0.0	0.0	0.0	0.0
55°	2556.4	813.9	40.3	18.1	10.1	6.0	2.0	0.0	0.0	0.0	0.0
57.5°	2757.9	826.0	36.3	16.1	8.1	4.0	2.0	0.0	0.0	0.0	0.0
60°	2981.5	826.0	30.2	14.1	6.0	4.0	2.0	0.0	0.0	0.0	0.0
62.5°	3229.3	801.8	28.2	12.1	6.0	4.0	2.0	0.0	0.0	0.0	0.0
65°	3430.8	715.2	24.2	10.1	6.0	4.0	2.0	0.0	0.0	0.0	0.0
67.5°	3438.8	566.1	22.2	8.1	6.0	4.0	2.0	0.0	0.0	0.0	0.0
70°	3066.1	386.8	18.1	6.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0
72.5°	2294.6	207.5	16.1	6.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
75°	1236.9	80.6	10.1	6.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
77.5°	360.6	40.3	6.0	4.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
80°	66.5	20.1	4.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.1	8.1	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	4.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	2.0	2.0	2.0	2.0	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)