

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: P594557

Luminaire Tested: **ISS-PA1B-735-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
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-T4W-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3685 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

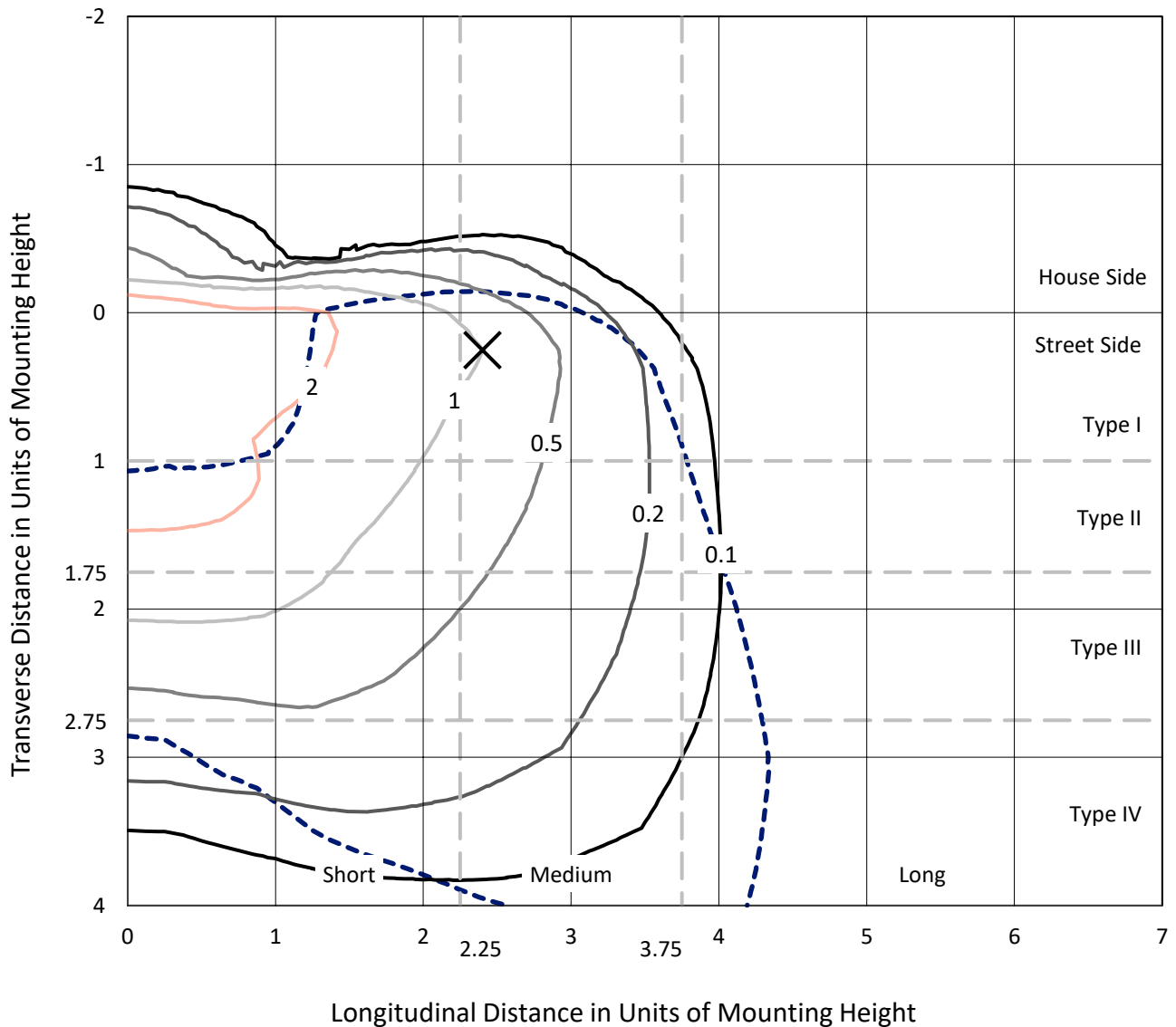
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

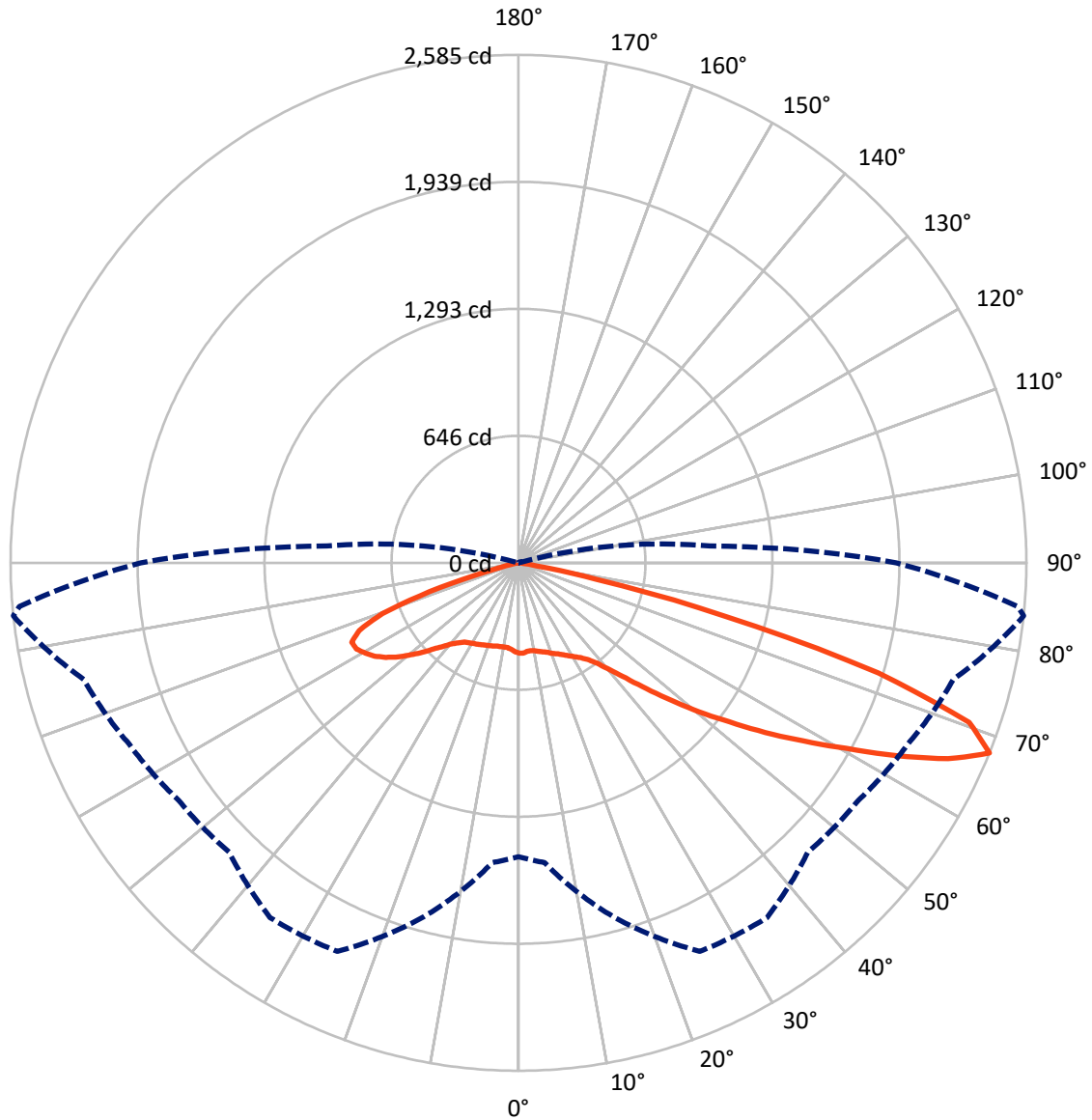
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	320.8	0.0	320.8
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	3364.2	0.0	3364.2
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	3685.0	0.0	3685.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.2	1.1
10°-20°	107.7	2.9
20°-30°	172.4	4.7
30°-40°	248.2	6.7
40°-50°	426.0	11.6
50°-60°	744.2	20.2
60°-70°	1065.7	28.9
70°-80°	801.0	21.7
80°-90°	78.6	2.1
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°	3685.0	100.0
0°-180°	3685.0	100.0

**Coefficient of Utilization**

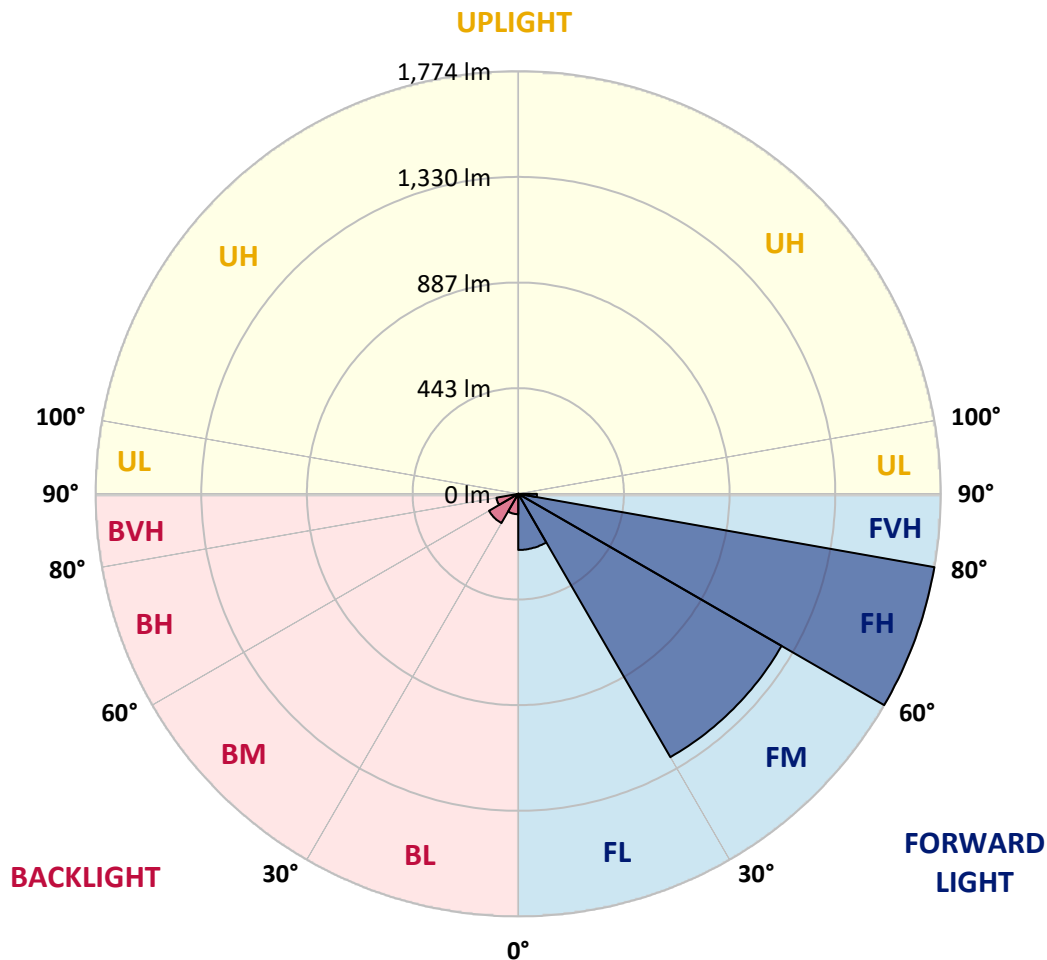


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.6	6.4			
FM (30°-60°)	1276.4	34.6			
FH (60°-80°)	1773.8	48.1			G1/1800
FVH (80°-90°)	78.4	2.1			G1/100
BL (0°-30°)	85.7	2.3	B0/110		
BM (30°-60°)	141.9	3.9	B0/220		
BH (60°-80°)	93.0	2.5	B0/110		G0/110
BVH (80°-90°)	0.2	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-G1**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1
2.5°	485.2	487.7	489.0	482.7	482.7	477.8	470.3	467.8	464.1	460.4	459.1
5°	510.1	513.9	512.6	505.1	501.4	491.5	481.5	471.5	461.6	452.9	452.9
7.5°	538.7	540.0	536.2	523.8	516.3	502.7	487.7	476.5	464.1	451.6	449.2
10°	563.6	562.4	557.4	545.0	531.3	513.9	497.7	485.2	470.3	455.4	454.1
12.5°	581.0	582.3	576.1	558.6	545.0	525.0	508.9	496.4	479.0	462.8	459.1
15°	596.0	599.7	592.2	574.8	554.9	537.5	525.0	508.9	489.0	470.3	467.8
17.5°	609.7	610.9	604.7	584.8	566.1	551.2	537.5	522.6	502.7	479.0	476.5
20°	617.1	620.9	617.1	592.2	574.8	563.6	552.4	537.5	515.1	492.7	490.2
22.5°	622.1	625.8	624.6	597.2	582.3	573.6	563.6	549.9	528.8	502.7	500.2
25°	624.6	627.1	629.6	602.2	589.7	586.0	577.3	564.9	545.0	517.6	515.1
27.5°	628.3	630.8	633.3	608.4	603.4	599.7	597.2	587.3	563.6	535.0	531.3
30°	634.5	638.3	640.8	619.6	619.6	623.3	623.3	609.7	583.5	553.7	551.2
32.5°	642.0	643.2	648.2	630.8	637.0	645.7	643.2	629.6	602.2	574.8	571.1
35°	661.9	661.9	670.6	648.2	655.7	663.2	665.6	655.7	630.8	603.4	602.2
37.5°	710.4	710.4	717.9	681.8	680.6	688.0	696.7	696.7	671.9	647.0	644.5
40°	819.9	819.9	819.9	736.6	722.9	731.6	745.3	752.7	731.6	714.2	714.2
42.5°	1002.8	1004.1	985.4	837.3	778.9	793.8	808.7	824.9	813.7	801.3	798.8
45°	1191.9	1185.7	1183.2	985.4	878.4	870.9	889.6	917.0	920.7	913.2	918.2
47.5°	1321.3	1327.6	1331.3	1169.5	1017.7	966.7	984.2	1022.7	1045.1	1043.9	1051.3
50°	1447.0	1450.7	1454.5	1372.3	1201.9	1087.4	1098.6	1150.9	1182.0	1191.9	1196.9
52.5°	1556.5	1546.5	1562.7	1551.5	1397.2	1225.5	1225.5	1285.2	1341.2	1345.0	1343.7
55°	1588.8	1595.1	1643.6	1677.2	1597.5	1394.7	1369.9	1433.3	1493.0	1524.1	1524.1
57.5°	1661.0	1667.2	1725.7	1801.6	1743.1	1561.5	1524.1	1586.3	1651.0	1710.8	1719.5
60°	1755.6	1756.8	1819.0	1934.7	1853.8	1712.0	1680.9	1751.8	1816.5	1918.5	1947.2
62.5°	1806.6	1811.5	1897.4	2049.2	1993.2	1843.9	1836.4	1901.1	1984.5	2163.6	2189.8
65°	1728.2	1760.5	1947.2	2117.6	2106.4	1967.1	1993.2	2045.5	2141.3	2403.8	2428.7
67.5°	1495.5	1531.6	1865.0	2182.3	2204.7	2082.8	2110.1	2186.0	2291.8	2585.4	2550.6
70°	1377.3	1407.2	1666.0	2218.4	2286.8	2212.2	2224.6	2295.5	2326.6	2433.6	2396.3
72.5°	1043.9	1075.0	1409.7	2095.2	2357.7	2347.8	2316.7	2258.2	2074.1	1914.8	1824.0
75°	461.6	497.7	938.1	1637.4	2182.3	2424.9	2260.7	1933.5	1489.3	1087.4	1007.8
77.5°	204.0	225.2	363.3	909.5	1639.8	2099.0	1787.9	1289.0	747.8	404.4	375.7
80°	65.9	68.4	114.5	318.5	838.6	1389.8	1094.9	619.6	230.2	94.6	88.3
82.5°	26.1	28.6	54.7	134.4	347.1	552.4	537.5	224.0	67.2	24.9	24.9
85°	7.5	8.7	27.4	70.9	123.2	155.5	190.4	74.7	36.1	7.5	7.5
87.5°	2.5	2.5	10.0	22.4	23.6	16.2	36.1	28.6	22.4	2.5	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°	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1
2.5°	456.6	454.1	447.9	442.9	440.4	436.7	431.7	429.2	429.2	428.0	424.3
5°	447.9	444.2	433.0	425.5	419.3	405.6	395.7	383.2	370.8	367.0	370.8
7.5°	444.2	436.7	421.8	406.9	380.7	344.6	321.0	294.9	286.2	275.0	276.2
10°	445.4	436.7	415.6	382.0	331.0	277.5	240.1	205.3	187.9	179.2	180.4
12.5°	449.2	439.2	409.3	348.4	275.0	210.3	153.0	125.7	120.7	120.7	120.7
15°	456.6	441.7	399.4	308.6	215.2	139.3	108.2	105.8	109.5	113.2	114.5
17.5°	464.1	449.2	384.5	267.5	156.8	104.5	100.8	100.8	104.5	108.2	109.5
20°	472.8	456.6	363.3	224.0	112.0	98.3	97.0	95.8	98.3	102.0	103.3
22.5°	486.5	464.1	338.4	172.9	97.0	94.6	92.1	90.8	92.1	95.8	97.0
25°	498.9	474.0	312.3	128.2	90.8	88.3	87.1	85.8	85.8	88.3	89.6
27.5°	513.9	485.2	283.7	95.8	83.4	82.1	80.9	79.6	78.4	80.9	82.1
30°	532.5	495.2	252.6	80.9	75.9	74.7	73.4	72.2	70.9	72.2	73.4
32.5°	556.2	508.9	216.5	73.4	69.7	65.9	64.7	64.7	63.5	63.5	64.7
35°	587.3	523.8	177.9	68.4	63.5	59.7	56.0	54.7	54.7	54.7	56.0
37.5°	633.3	551.2	140.6	63.5	58.5	52.3	48.5	44.8	44.8	44.8	44.8
40°	696.7	581.0	109.5	59.7	54.7	46.0	41.1	36.1	33.6	32.3	33.6
42.5°	795.0	625.8	84.6	54.7	52.3	41.1	33.6	27.4	22.4	21.2	22.4
45°	903.3	674.4	67.2	51.0	47.3	34.8	26.1	18.7	13.7	12.4	13.7
47.5°	1040.1	735.3	57.2	46.0	41.1	28.6	18.7	10.0	6.2	7.5	7.5
50°	1172.0	795.0	52.3	42.3	36.1	23.6	11.2	5.0	2.5	3.7	3.7
52.5°	1317.6	858.5	48.5	37.3	31.1	17.4	6.2	1.2	0.0	1.2	1.2
55°	1464.4	915.7	44.8	33.6	24.9	12.4	2.5	0.0	0.0	0.0	1.2
57.5°	1623.7	964.2	41.1	28.6	18.7	7.5	1.2	0.0	0.0	0.0	0.0
60°	1756.8	1001.6	37.3	24.9	12.4	3.7	0.0	0.0	0.0	0.0	0.0
62.5°	1878.7	1035.2	28.6	18.7	7.5	2.5	0.0	0.0	0.0	0.0	0.0
65°	1959.6	1042.6	19.9	12.4	5.0	1.2	0.0	0.0	0.0	0.0	0.0
67.5°	1923.5	977.9	12.4	8.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0
70°	1690.9	821.2	8.7	5.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1183.2	530.0	7.5	3.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0
75°	624.6	191.6	5.0	2.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	221.5	42.3	2.5	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0
80°	48.5	8.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	0.0	0.0	0.0	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)