

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: P594596

Luminaire Tested: **ISS-PA1B-830-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594596  
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-PA1B-830-U-T2R-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 450mA 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: 3520 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

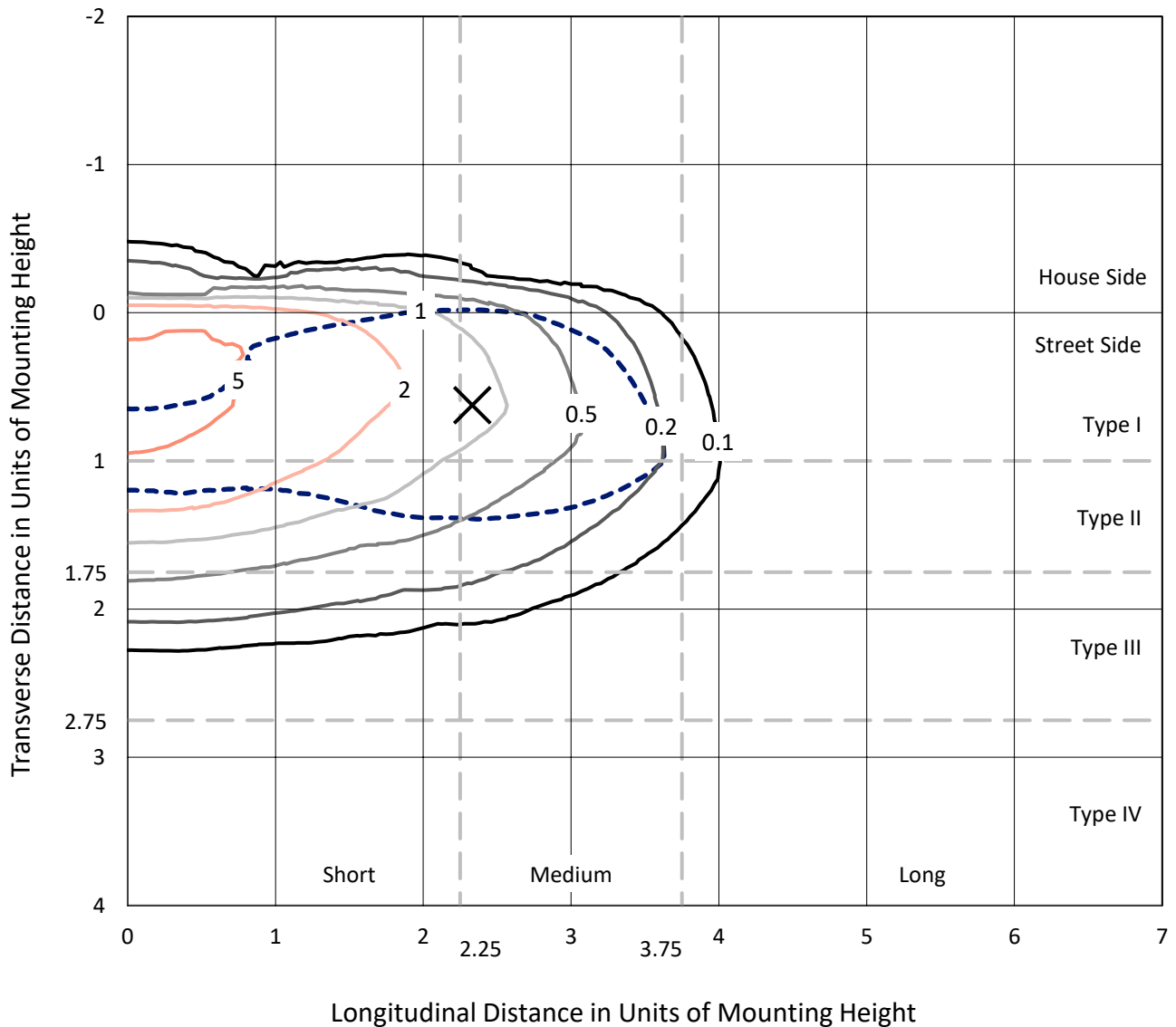
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

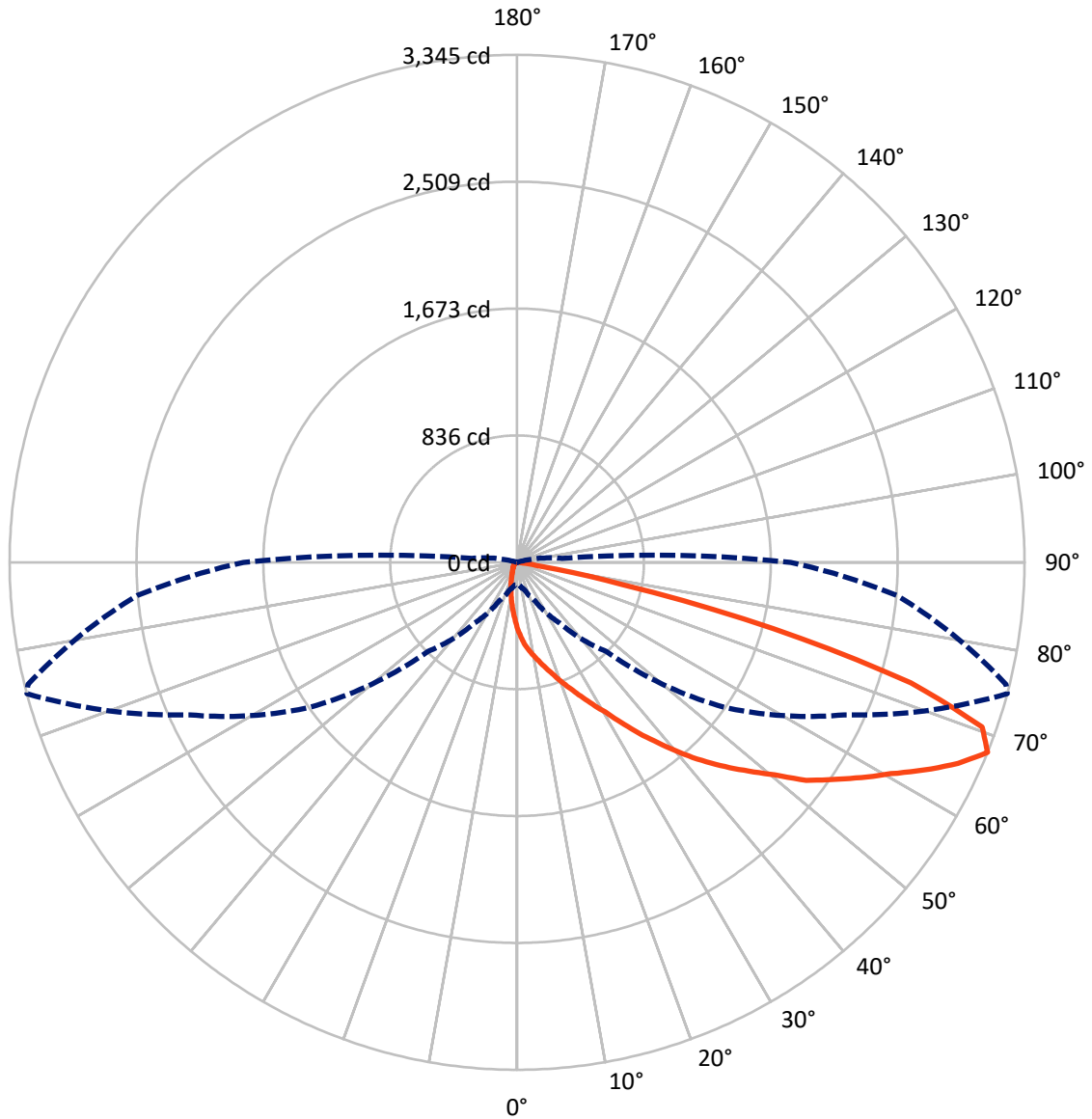
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.9 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	177.5	0.0	177.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	3342.5	0.0	3342.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	3520.0	0.0	3520.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.5	1.1
10°-20°	127.3	3.6
20°-30°	255.9	7.3
30°-40°	484.1	13.8
40°-50°	724.3	20.6
50°-60°	836.2	23.8
60°-70°	741.2	21.1
70°-80°	299.6	8.5
80°-90°	12.0	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°	3520.0	100.0
0°-180°	3520.0	100.0

**Coefficient of Utilization**



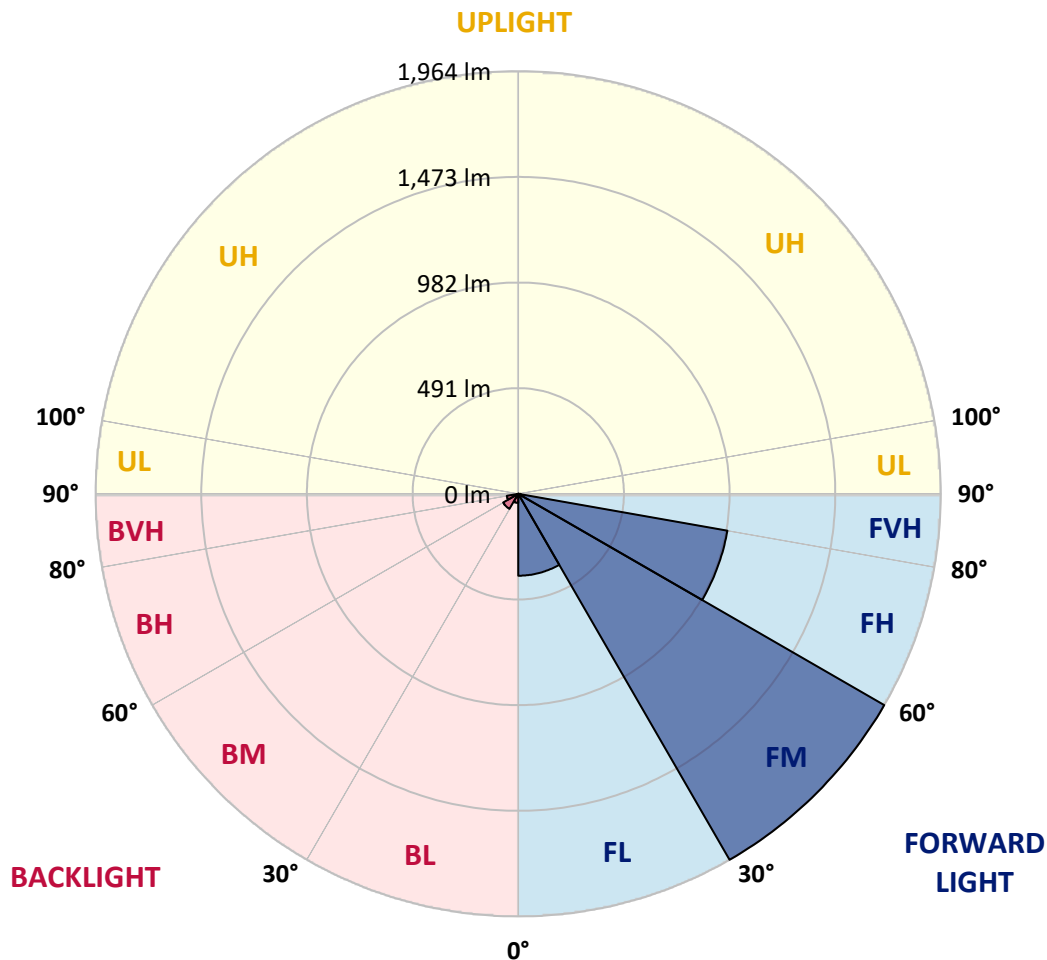
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.5	10.8			
FM (30°-60°)	1963.6	55.8			
FH (60°-80°)	987.0	28.0			G1/1800
FVH (80°-90°)	11.4	0.3			G1/100
BL (0°-30°)	42.2	1.2	B0/110		
BM (30°-60°)	80.9	2.3	B0/220		
BH (60°-80°)	53.8	1.5	B0/110		G0/110
BVH (80°-90°)	0.5	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5
2.5°	608.6	610.7	606.5	597.0	588.6	568.5	552.6	524.1	493.5	493.5	456.5
5°	680.5	678.4	676.3	668.9	662.5	645.6	624.5	593.8	546.3	542.1	480.8
7.5°	715.4	713.2	709.0	705.8	705.8	694.2	674.1	642.4	589.6	585.4	503.0
10°	756.6	752.3	752.3	743.9	741.8	728.0	717.5	690.0	631.9	626.6	528.3
12.5°	805.2	800.9	802.0	794.6	791.4	776.6	761.8	735.4	677.3	672.0	557.9
15°	832.6	830.5	836.9	837.9	840.0	827.4	813.6	786.1	728.0	720.6	592.8
17.5°	848.5	848.5	855.9	869.6	885.5	878.1	867.5	845.3	779.8	775.6	629.8
20°	879.1	876.0	888.6	901.3	921.4	927.7	924.6	907.7	842.1	829.5	669.9
22.5°	929.9	925.6	937.2	953.1	977.4	979.5	981.6	973.2	905.5	892.9	712.2
25°	1049.3	1038.7	1028.1	1026.0	1035.5	1044.0	1037.6	1044.0	977.4	965.8	757.6
27.5°	1281.7	1263.8	1213.0	1157.0	1117.9	1125.3	1105.3	1116.9	1059.8	1045.0	799.9
30°	1504.7	1486.7	1445.5	1346.2	1256.4	1216.2	1186.6	1182.4	1144.4	1127.4	848.5
32.5°	1660.0	1648.4	1620.9	1554.3	1442.3	1339.8	1282.8	1262.7	1257.4	1231.0	910.8
35°	1765.7	1755.1	1736.1	1682.2	1599.8	1485.6	1387.4	1343.0	1383.2	1351.5	981.6
37.5°	1829.1	1821.7	1800.5	1763.5	1719.2	1644.1	1517.3	1446.6	1510.0	1480.4	1072.5
40°	1875.6	1856.5	1841.7	1813.2	1798.4	1774.1	1665.3	1554.3	1647.3	1616.7	1162.3
42.5°	1879.8	1871.3	1859.7	1842.8	1844.9	1860.8	1822.7	1679.0	1785.7	1757.2	1257.4
45°	1878.7	1870.3	1861.8	1844.9	1855.5	1914.6	1949.5	1810.0	1921.0	1891.4	1357.8
47.5°	1848.1	1841.7	1843.9	1843.9	1857.6	1937.9	2047.8	1943.2	2056.2	2027.7	1479.3
50°	1740.3	1746.6	1788.9	1811.1	1835.4	1939.0	2116.5	2082.7	2202.1	2182.0	1596.6
52.5°	1399.0	1434.9	1606.1	1723.4	1794.2	1917.8	2160.8	2229.5	2387.0	2356.3	1729.7
55°	1069.3	1071.4	1236.3	1508.9	1712.8	1879.8	2186.2	2328.9	2527.5	2510.6	1847.0
57.5°	867.5	866.5	947.8	1193.0	1501.5	1819.6	2192.5	2401.8	2676.5	2644.8	1982.3
60°	709.0	704.8	753.4	904.5	1226.8	1678.0	2169.3	2460.9	2829.7	2818.1	2123.9
62.5°	512.5	516.7	581.2	698.4	945.7	1417.0	2119.6	2478.9	3014.6	3003.0	2282.4
65°	294.8	307.5	378.3	503.0	724.9	1108.4	1978.0	2465.2	3195.3	3194.3	2429.2
67.5°	147.9	149.0	187.0	281.1	487.1	829.5	1665.3	2378.5	3345.4	3322.1	2513.8
70°	95.1	97.2	109.9	144.8	269.4	574.8	1272.2	2133.4	3251.3	3242.9	2390.1
72.5°	72.9	75.0	85.6	95.1	140.5	326.5	861.2	1657.9	2714.5	2691.3	1863.9
75°	57.1	58.1	68.7	77.1	94.0	153.2	432.2	1033.4	1748.8	1688.5	1060.9
77.5°	45.4	46.5	51.8	61.3	71.9	85.6	127.9	464.9	711.1	635.0	344.5
80°	29.6	30.6	39.1	47.5	61.3	56.0	49.7	134.2	152.2	137.4	61.3
82.5°	16.9	18.0	26.4	38.0	46.5	31.7	28.5	39.1	35.9	34.9	19.0
85°	5.3	5.3	18.0	26.4	21.1	9.5	18.0	13.7	11.6	10.6	6.3
87.5°	1.1	1.1	8.5	9.5	3.2	1.1	2.1	3.2	4.2	5.3	3.2
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°	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5	437.5
2.5°	438.5	417.4	378.3	344.5	311.7	283.2	263.1	245.1	232.5	229.3	224.0
5°	441.7	400.5	325.4	262.0	207.1	162.7	137.4	120.5	112.0	106.7	106.7
7.5°	444.8	383.6	275.8	191.3	131.0	99.3	83.5	76.1	72.9	71.9	70.8
10°	451.2	370.9	233.5	137.4	89.8	75.0	68.7	65.5	63.4	62.3	62.3
12.5°	461.8	360.3	194.4	101.4	74.0	66.6	62.3	58.1	56.0	54.9	54.9
15°	475.5	352.9	160.6	81.4	67.6	60.2	54.9	50.7	47.5	46.5	46.5
17.5°	494.5	347.6	132.1	71.9	62.3	53.9	47.5	43.3	40.2	39.1	39.1
20°	513.5	347.6	108.8	66.6	57.1	47.5	41.2	35.9	32.8	31.7	31.7
22.5°	538.9	346.6	90.9	61.3	50.7	41.2	34.9	28.5	26.4	25.4	25.4
25°	560.0	346.6	78.2	56.0	44.4	35.9	28.5	23.2	21.1	20.1	20.1
27.5°	585.4	343.4	66.6	49.7	38.0	29.6	23.2	19.0	16.9	15.8	15.8
30°	607.6	339.2	59.2	44.4	32.8	24.3	19.0	14.8	13.7	13.7	13.7
32.5°	644.6	336.0	52.8	38.0	27.5	20.1	14.8	11.6	10.6	10.6	10.6
35°	688.9	336.0	48.6	32.8	23.2	16.9	11.6	9.5	8.5	8.5	8.5
37.5°	747.1	339.2	43.3	28.5	19.0	13.7	9.5	7.4	6.3	6.3	6.3
40°	808.3	346.6	39.1	25.4	16.9	10.6	7.4	5.3	4.2	5.3	5.3
42.5°	881.2	354.0	34.9	22.2	13.7	8.5	5.3	3.2	2.1	3.2	3.2
45°	953.1	361.4	32.8	19.0	11.6	6.3	3.2	2.1	1.1	2.1	2.1
47.5°	1041.9	379.3	30.6	16.9	9.5	5.3	2.1	1.1	0.0	1.1	1.1
50°	1144.4	399.4	27.5	13.7	7.4	4.2	2.1	0.0	0.0	0.0	0.0
52.5°	1242.6	416.3	24.3	11.6	6.3	3.2	1.1	0.0	0.0	0.0	0.0
55°	1340.9	426.9	21.1	9.5	5.3	3.2	1.1	0.0	0.0	0.0	0.0
57.5°	1446.6	433.2	19.0	8.5	4.2	2.1	1.1	0.0	0.0	0.0	0.0
60°	1563.8	433.2	15.8	7.4	3.2	2.1	1.1	0.0	0.0	0.0	0.0
62.5°	1693.8	420.5	14.8	6.3	3.2	2.1	1.1	0.0	0.0	0.0	0.0
65°	1799.5	375.1	12.7	5.3	3.2	2.1	1.1	0.0	0.0	0.0	0.0
67.5°	1803.7	296.9	11.6	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
70°	1608.2	202.9	9.5	3.2	2.1	2.1	1.1	0.0	0.0	0.0	0.0
72.5°	1203.5	108.8	8.5	3.2	2.1	1.1	1.1	0.0	0.0	0.0	0.0
75°	648.8	42.3	5.3	3.2	2.1	1.1	1.1	0.0	0.0	0.0	0.0
77.5°	189.1	21.1	3.2	2.1	2.1	1.1	1.1	0.0	0.0	0.0	0.0
80°	34.9	10.6	2.1	2.1	2.1	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	9.5	4.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	4.2	2.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.1	1.1	1.1	1.1	1.1	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)