

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: P594566

Luminaire Tested: **ISS-PA1B-740-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594566  
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-740-U-T4W-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 4000K, 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: 3956 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G2

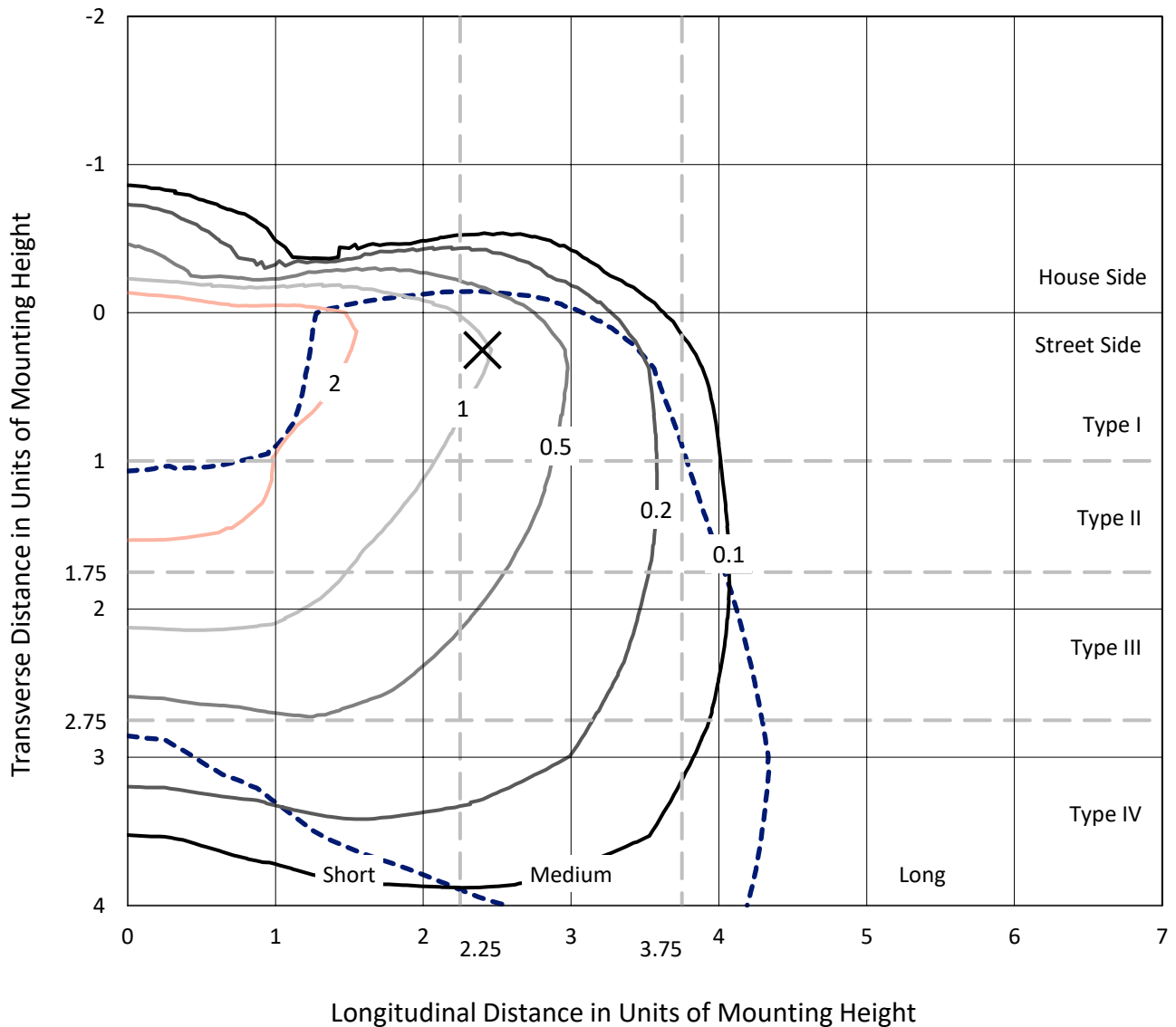
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594566  
 CATALOG NUMBER: ISS-PA1B-740-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

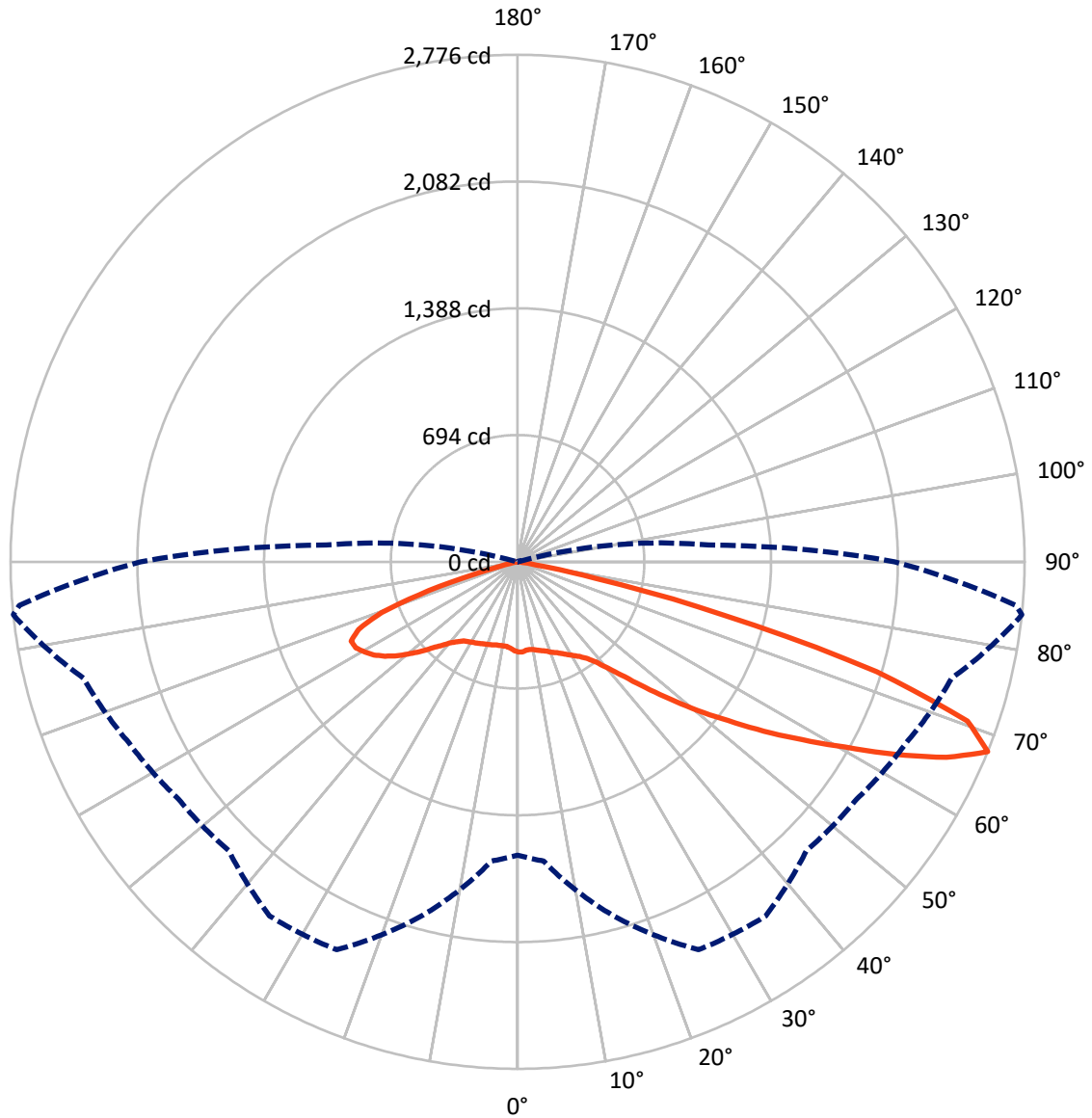
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P594566  
CATALOG NUMBER: ISS-PA1B-740-U-T4W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P594566  
 CATALOG NUMBER: ISS-PA1B-740-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	344.4	0.0	344.4
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	3611.6	0.0	3611.6
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	3956.0	0.0	3956.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.2	1.1
10°-20°	115.6	2.9
20°-30°	185.1	4.7
30°-40°	266.4	6.7
40°-50°	457.3	11.6
50°-60°	798.9	20.2
60°-70°	1144.1	28.9
70°-80°	859.9	21.7
80°-90°	84.4	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°	3956.0	100.0
0°-180°	3956.0	100.0

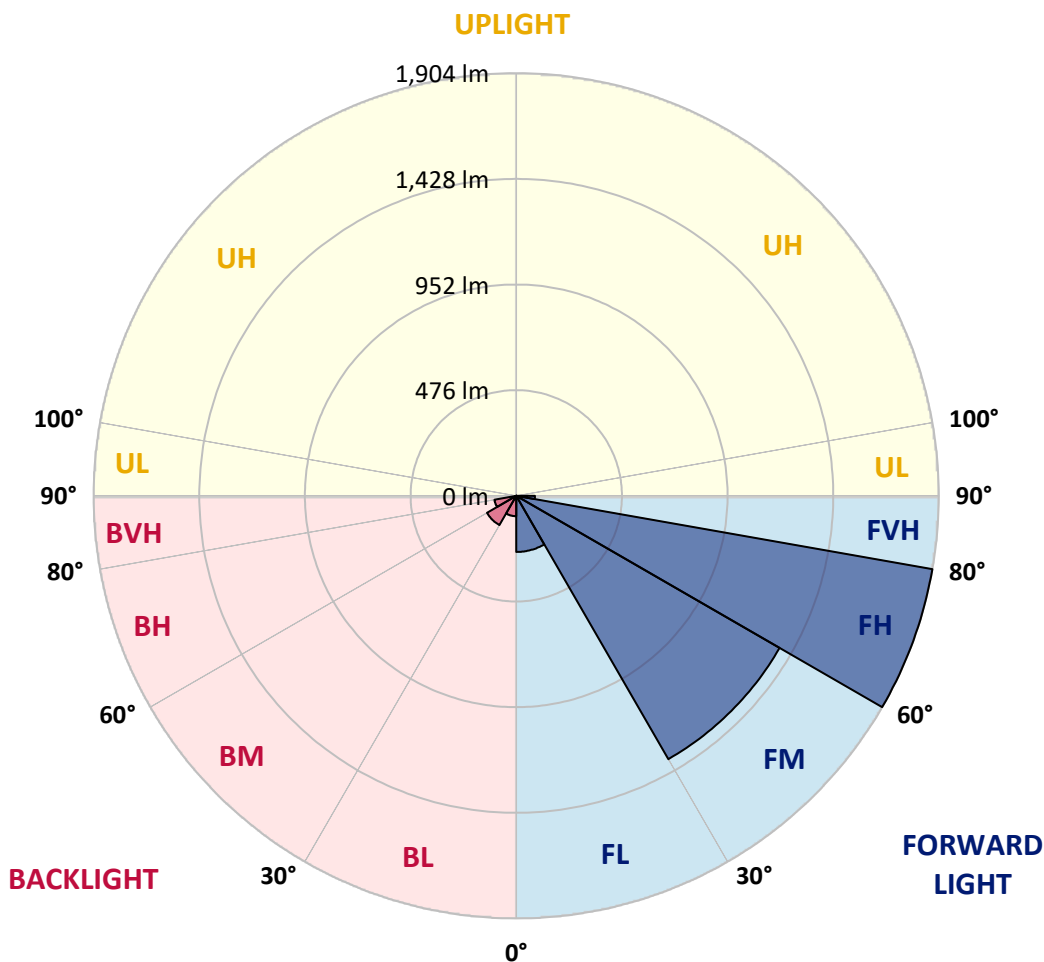


REPORT NUMBER: P594566  
 CATALOG NUMBER: ISS-PA1B-740-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	252.9	6.4			
FM (30°-60°)	1370.3	34.6			
FH (60°-80°)	1904.2	48.1			G2/5000
FVH (80°-90°)	84.1	2.1			G1/100
BL (0°-30°)	92.0	2.3	B0/110		
BM (30°-60°)	152.3	3.9	B0/220		
BH (60°-80°)	99.9	2.5	B0/110		G0/110
BVH (80°-90°)	0.3	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 IV Medium





REPORT NUMBER: P594566  
 CATALOG NUMBER: ISS-PA1B-740-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9
2.5°	520.9	523.6	524.9	518.2	518.2	512.9	504.9	502.2	498.2	494.2	492.9
5°	547.6	551.6	550.3	542.3	538.3	527.6	516.9	506.2	495.5	486.2	486.2
7.5°	578.4	579.7	575.7	562.3	554.3	539.6	523.6	511.6	498.2	484.9	482.2
10°	605.1	603.7	598.4	585.0	570.3	551.6	534.3	520.9	504.9	488.9	487.5
12.5°	623.8	625.1	618.4	599.7	585.0	563.7	546.3	532.9	514.2	496.9	492.9
15°	639.8	643.8	635.8	617.1	595.7	577.0	563.7	546.3	524.9	504.9	502.2
17.5°	654.5	655.8	649.1	627.8	607.7	591.7	577.0	561.0	539.6	514.2	511.6
20°	662.5	666.5	662.5	635.8	617.1	605.1	593.0	577.0	553.0	528.9	526.3
22.5°	667.8	671.9	670.5	641.1	625.1	615.8	605.1	590.4	567.7	539.6	536.9
25°	670.5	673.2	675.9	646.5	633.1	629.1	619.8	606.4	585.0	555.6	553.0
27.5°	674.5	677.2	679.9	653.2	647.8	643.8	641.1	630.4	605.1	574.3	570.3
30°	681.2	685.2	687.9	665.2	665.2	669.2	669.2	654.5	626.4	594.4	591.7
32.5°	689.2	690.6	695.9	677.2	683.9	693.2	690.6	675.9	646.5	617.1	613.1
35°	710.6	710.6	719.9	695.9	703.9	711.9	714.6	703.9	677.2	647.8	646.5
37.5°	762.7	762.7	770.7	732.0	730.6	738.6	748.0	748.0	721.3	694.6	691.9
40°	880.2	880.2	880.2	790.7	776.0	785.4	800.1	808.1	785.4	766.7	766.7
42.5°	1076.6	1077.9	1057.9	898.9	836.1	852.2	868.2	885.6	873.5	860.2	857.5
45°	1279.6	1272.9	1270.2	1057.9	943.0	935.0	955.0	984.4	988.4	980.4	985.7
47.5°	1418.5	1425.2	1429.2	1255.5	1092.6	1037.8	1056.5	1097.9	1122.0	1120.6	1128.7
50°	1553.4	1557.4	1561.4	1473.3	1290.3	1167.4	1179.4	1235.5	1268.9	1279.6	1284.9
52.5°	1670.9	1660.3	1677.6	1665.6	1500.0	1315.7	1315.7	1379.8	1439.9	1443.9	1442.5
55°	1705.7	1712.4	1764.4	1800.5	1715.0	1497.3	1470.6	1538.7	1602.8	1636.2	1636.2
57.5°	1783.1	1789.8	1852.6	1934.1	1871.3	1676.3	1636.2	1703.0	1772.5	1836.6	1845.9
60°	1884.7	1886.0	1952.8	2077.0	1990.2	1837.9	1804.5	1880.7	1950.1	2059.6	2090.4
62.5°	1939.4	1944.8	2036.9	2199.9	2139.8	1979.5	1971.5	2040.9	2130.4	2322.8	2350.8
65°	1855.3	1890.0	2090.4	2273.3	2261.3	2111.7	2139.8	2195.9	2298.7	2580.6	2607.3
67.5°	1605.5	1644.2	2002.2	2342.8	2366.8	2235.9	2265.3	2346.8	2460.3	2775.6	2738.2
70°	1478.6	1510.7	1788.5	2381.5	2455.0	2374.9	2388.2	2464.3	2497.7	2612.6	2572.5
72.5°	1120.6	1154.0	1513.3	2249.3	2531.1	2520.4	2487.1	2424.3	2226.6	2055.6	1958.1
75°	495.5	534.3	1007.1	1757.8	2342.8	2603.3	2427.0	2075.7	1598.8	1167.4	1081.9
77.5°	219.1	241.8	390.0	976.4	1760.4	2253.3	1919.4	1383.8	802.8	434.1	403.4
80°	70.8	73.5	122.9	341.9	900.3	1492.0	1175.4	665.2	247.1	101.5	94.8
82.5°	28.0	30.7	58.8	144.3	372.7	593.0	577.0	240.4	72.1	26.7	26.7
85°	8.0	9.3	29.4	76.1	132.2	167.0	204.4	80.1	38.7	8.0	8.0
87.5°	2.7	2.7	10.7	24.0	25.4	17.4	38.7	30.7	24.0	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594566  
 CATALOG NUMBER: ISS-PA1B-740-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9
2.5°	490.2	487.5	480.8	475.5	472.8	468.8	463.5	460.8	460.8	459.5	455.5
5°	480.8	476.8	464.8	456.8	450.1	435.4	424.7	411.4	398.0	394.0	398.0
7.5°	476.8	468.8	452.8	436.8	408.7	370.0	344.6	316.6	307.2	295.2	296.5
10°	478.2	468.8	446.1	410.1	355.3	297.9	257.8	220.4	201.7	192.3	193.7
12.5°	482.2	471.5	439.4	374.0	295.2	225.7	164.3	134.9	129.6	129.6	129.6
15°	490.2	474.2	428.8	331.3	231.1	149.6	116.2	113.5	117.5	121.5	122.9
17.5°	498.2	482.2	412.7	287.2	168.3	112.2	108.2	108.2	112.2	116.2	117.5
20°	507.6	490.2	390.0	240.4	120.2	105.5	104.2	102.8	105.5	109.5	110.9
22.5°	522.3	498.2	363.3	185.7	104.2	101.5	98.8	97.5	98.8	102.8	104.2
25°	535.6	508.9	335.3	137.6	97.5	94.8	93.5	92.2	92.2	94.8	96.2
27.5°	551.6	520.9	304.5	102.8	89.5	88.2	86.8	85.5	84.1	86.8	88.2
30°	571.7	531.6	271.1	86.8	81.5	80.1	78.8	77.5	76.1	77.5	78.8
32.5°	597.1	546.3	232.4	78.8	74.8	70.8	69.5	69.5	68.1	68.1	69.5
35°	630.4	562.3	191.0	73.5	68.1	64.1	60.1	58.8	58.8	58.8	60.1
37.5°	679.9	591.7	150.9	68.1	62.8	56.1	52.1	48.1	48.1	48.1	48.1
40°	748.0	623.8	117.5	64.1	58.8	49.4	44.1	38.7	36.1	34.7	36.1
42.5°	853.5	671.9	90.8	58.8	56.1	44.1	36.1	29.4	24.0	22.7	24.0
45°	969.7	723.9	72.1	54.8	50.8	37.4	28.0	20.0	14.7	13.4	14.7
47.5°	1116.6	789.4	61.4	49.4	44.1	30.7	20.0	10.7	6.7	8.0	8.0
50°	1258.2	853.5	56.1	45.4	38.7	25.4	12.0	5.3	2.7	4.0	4.0
52.5°	1414.5	921.6	52.1	40.1	33.4	18.7	6.7	1.3	0.0	1.3	1.3
55°	1572.1	983.1	48.1	36.1	26.7	13.4	2.7	0.0	0.0	0.0	1.3
57.5°	1743.1	1035.2	44.1	30.7	20.0	8.0	1.3	0.0	0.0	0.0	0.0
60°	1886.0	1075.2	40.1	26.7	13.4	4.0	0.0	0.0	0.0	0.0	0.0
62.5°	2016.9	1111.3	30.7	20.0	8.0	2.7	0.0	0.0	0.0	0.0	0.0
65°	2103.7	1119.3	21.4	13.4	5.3	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	2065.0	1049.9	13.4	9.3	2.7	1.3	0.0	0.0	0.0	0.0	0.0
70°	1815.2	881.6	9.3	5.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	1270.2	569.0	8.0	4.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0
75°	670.5	205.7	5.3	2.7	1.3	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	237.8	45.4	2.7	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0
80°	52.1	9.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	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)