

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: P594677

Luminaire Tested: **ISS-PA1C-830-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594677  
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-PA1C-830-U-T2R-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 615mA 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: 4595 lumens  
Efficiency: N/A  
Efficacy: 94.0 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

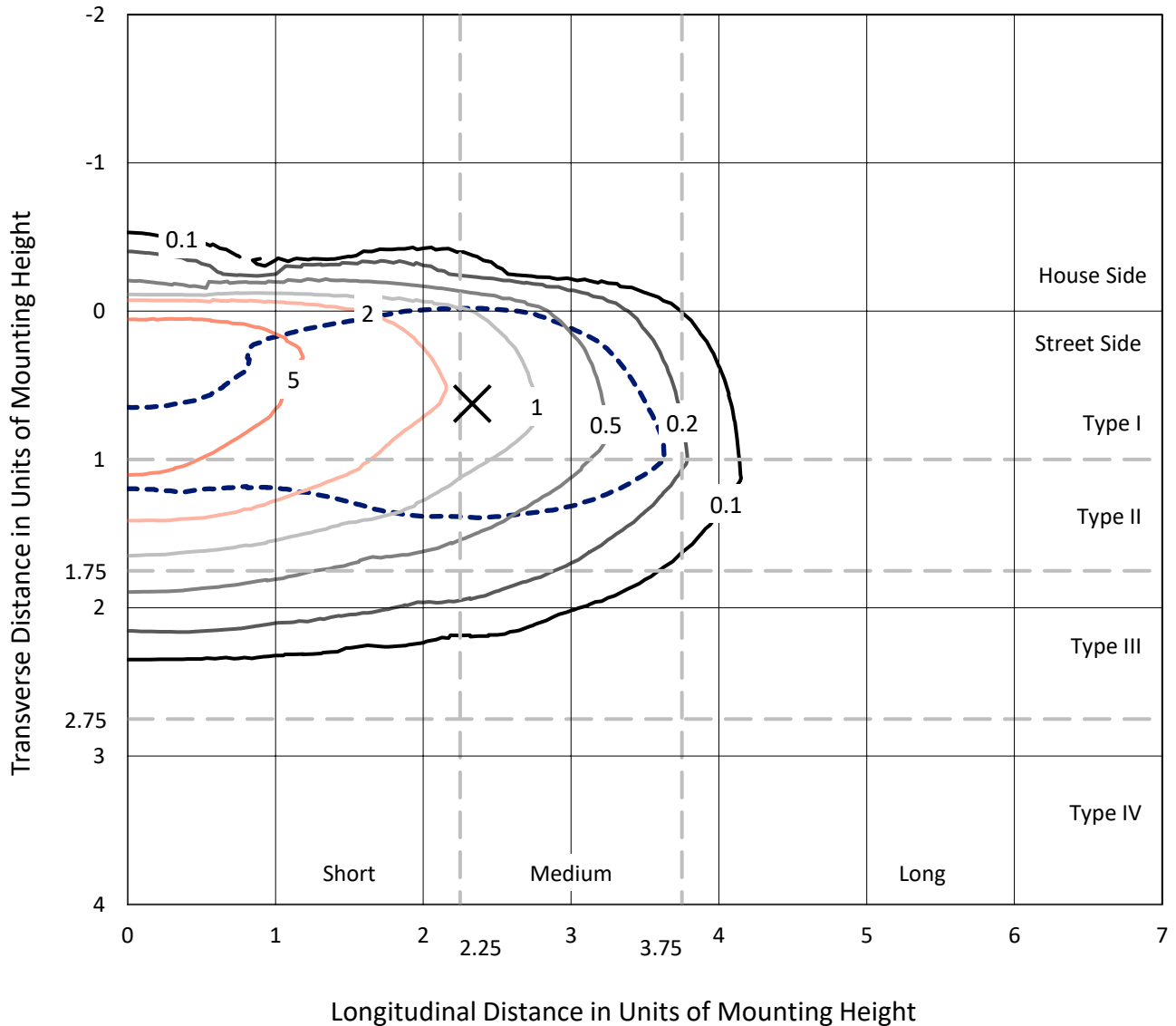
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

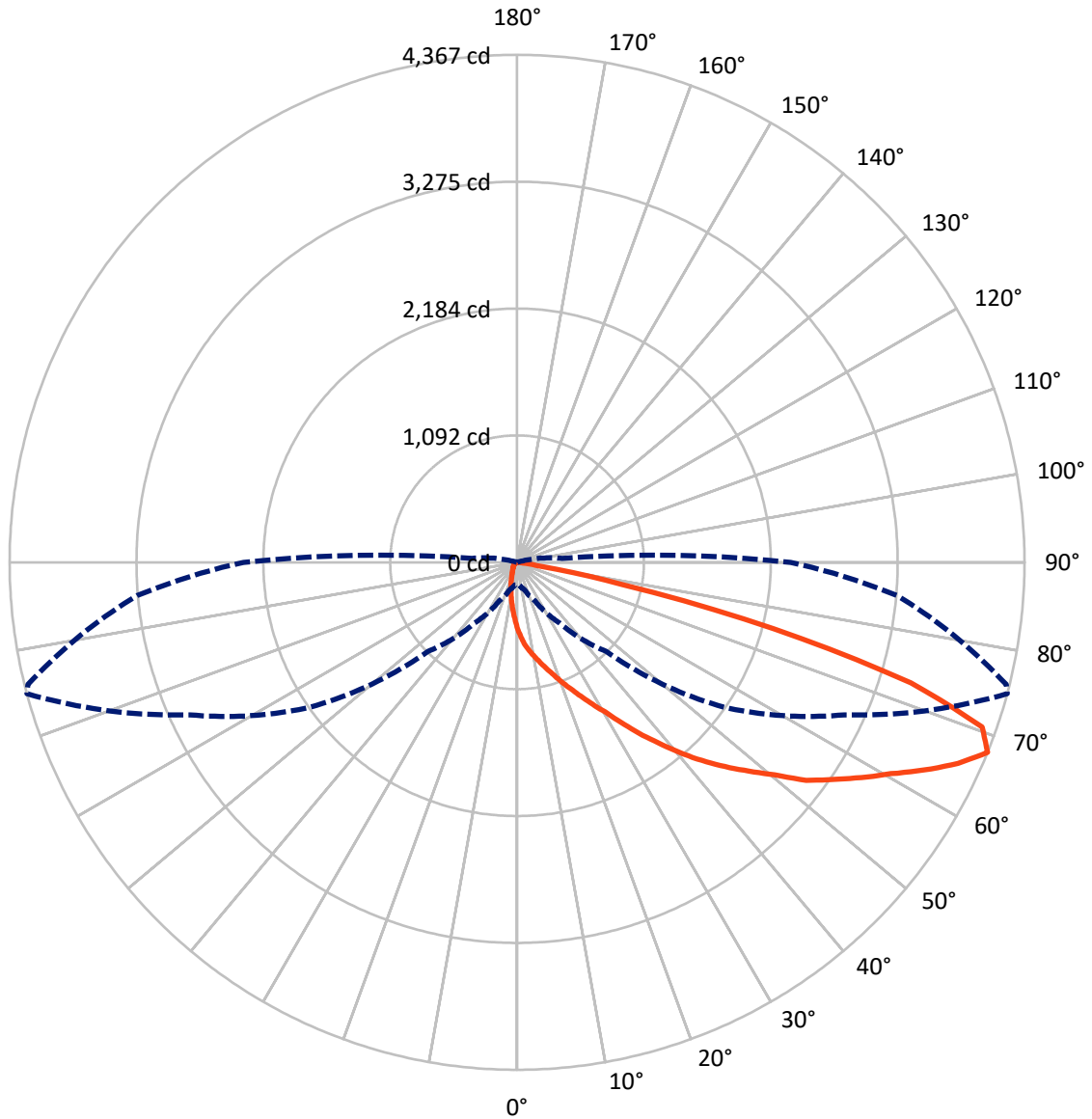
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 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	231.7	0.0	231.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	4363.3	0.0	4363.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	4595.0	0.0	4595.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.5	1.1
10°-20°	166.2	3.6
20°-30°	334.1	7.3
30°-40°	632.0	13.8
40°-50°	945.4	20.6
50°-60°	1091.5	23.8
60°-70°	967.6	21.1
70°-80°	391.1	8.5
80°-90°	15.6	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°	4595.0	100.0
0°-180°	4595.0	100.0

**Coefficient of Utilization**

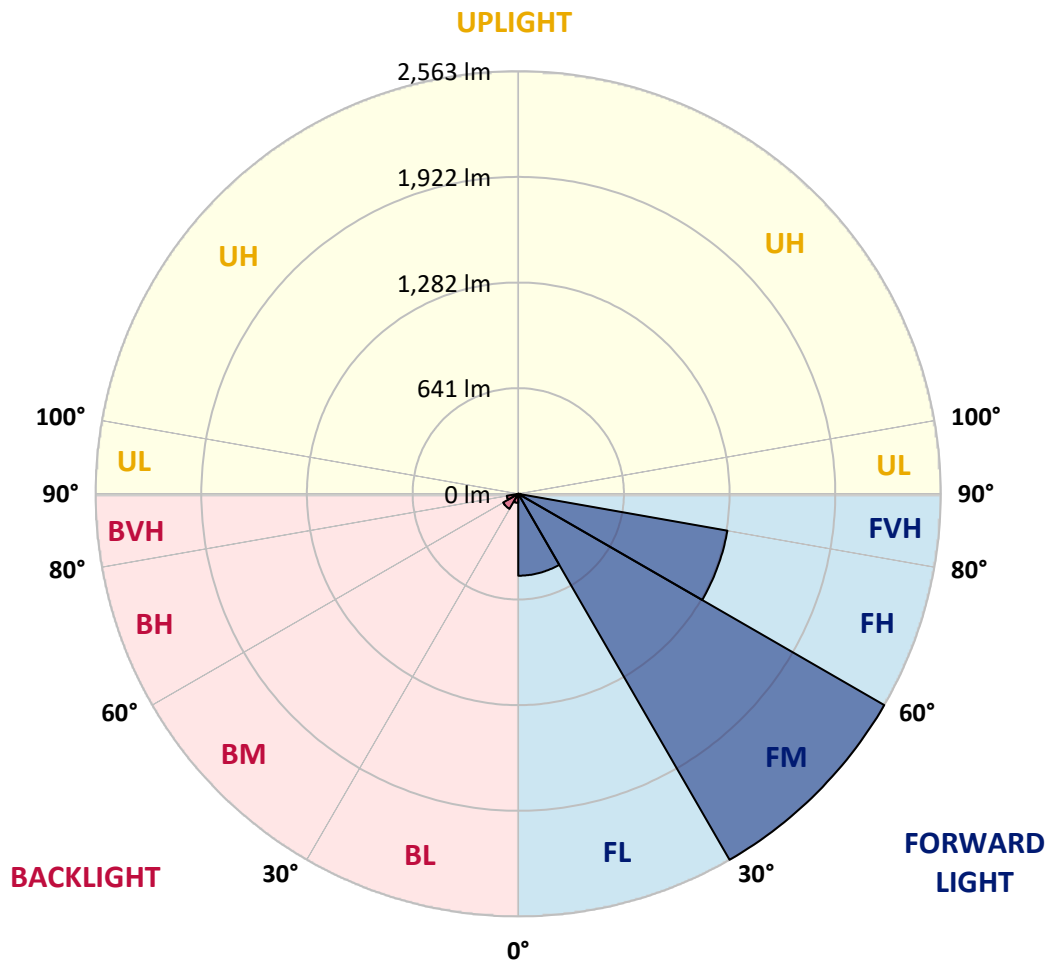


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.8	10.8			
FM (30°-60°)	2563.3	55.8			
FH (60°-80°)	1288.4	28.0			G1/1800
FVH (80°-90°)	14.9	0.3			G1/100
BL (0°-30°)	55.1	1.2	B0/110		
BM (30°-60°)	105.7	2.3	B0/220		
BH (60°-80°)	70.2	1.5	B0/110		G0/110
BVH (80°-90°)	0.7	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°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1
2.5°	794.5	797.3	791.7	779.3	768.3	742.1	721.4	684.2	644.2	644.2	595.9
5°	888.3	885.5	882.8	873.1	864.9	842.8	815.2	775.2	713.1	707.6	627.6
7.5°	933.8	931.1	925.5	921.4	921.4	906.2	880.0	838.6	769.7	764.2	656.6
10°	987.6	982.1	982.1	971.1	968.3	950.4	936.6	900.7	824.9	818.0	689.7
12.5°	1051.1	1045.5	1046.9	1037.3	1033.1	1013.8	994.5	960.0	884.2	877.3	728.3
15°	1086.9	1084.2	1092.4	1093.8	1096.6	1080.0	1062.1	1026.2	950.4	940.7	773.8
17.5°	1107.6	1107.6	1117.3	1135.2	1155.9	1146.2	1132.4	1103.5	1018.0	1012.4	822.1
20°	1147.6	1143.5	1160.0	1176.6	1202.8	1211.1	1206.9	1184.9	1099.3	1082.8	874.5
22.5°	1213.8	1208.3	1223.5	1244.2	1275.9	1278.7	1281.4	1270.4	1182.1	1165.5	929.7
25°	1369.7	1355.9	1342.1	1339.3	1351.8	1362.8	1354.5	1362.8	1275.9	1260.7	989.0
27.5°	1673.1	1649.7	1583.5	1510.4	1459.4	1469.0	1442.8	1458.0	1383.5	1364.2	1044.2
30°	1964.2	1940.7	1886.9	1757.3	1640.0	1587.6	1549.0	1543.5	1493.8	1471.8	1107.6
32.5°	2167.0	2151.8	2115.9	2029.0	1882.8	1749.0	1674.5	1648.3	1641.4	1606.9	1189.0
35°	2304.9	2291.1	2266.3	2195.9	2088.3	1939.4	1811.1	1753.2	1805.6	1764.2	1281.4
37.5°	2387.7	2378.0	2350.4	2302.1	2244.2	2146.3	1980.7	1888.3	1971.1	1932.5	1400.0
40°	2448.3	2423.5	2404.2	2367.0	2347.7	2315.9	2173.9	2029.0	2150.4	2110.4	1517.3
42.5°	2453.9	2442.8	2427.7	2405.6	2408.3	2429.0	2379.4	2191.8	2331.1	2293.9	1641.4
45°	2452.5	2441.4	2430.4	2408.3	2422.1	2499.4	2544.9	2362.8	2507.7	2469.0	1772.5
47.5°	2412.5	2404.2	2407.0	2407.0	2424.9	2529.7	2673.2	2536.6	2684.2	2647.0	1931.1
50°	2271.8	2280.1	2335.2	2364.2	2395.9	2531.1	2762.8	2718.7	2874.6	2848.4	2084.2
52.5°	1826.3	1873.2	2096.6	2249.7	2342.1	2503.5	2820.8	2910.4	3115.9	3075.9	2258.0
55°	1395.9	1398.7	1613.8	1969.7	2235.9	2453.9	2853.9	3040.1	3299.4	3277.3	2411.1
57.5°	1132.4	1131.1	1237.3	1557.3	1960.1	2375.2	2862.1	3135.3	3493.9	3452.5	2587.7
60°	925.5	920.0	983.5	1180.7	1601.4	2190.4	2831.8	3212.5	3693.9	3678.7	2772.5
62.5°	669.0	674.5	758.6	911.7	1234.5	1849.7	2767.0	3236.0	3935.3	3920.1	2979.4
65°	384.8	401.4	493.8	656.6	946.2	1446.9	2582.1	3218.0	4171.1	4169.8	3171.1
67.5°	193.1	194.5	244.1	366.9	635.9	1082.8	2173.9	3104.9	4367.0	4336.7	3281.5
70°	124.1	126.9	143.5	189.0	351.7	750.4	1660.7	2784.9	4244.3	4233.2	3120.1
72.5°	95.2	97.9	111.7	124.1	183.5	426.2	1124.2	2164.2	3543.5	3513.2	2433.2
75°	74.5	75.9	89.7	100.7	122.8	200.0	564.2	1349.0	2282.8	2204.2	1384.9
77.5°	59.3	60.7	67.6	80.0	93.8	111.7	166.9	606.9	928.3	829.0	449.7
80°	38.6	40.0	51.0	62.1	80.0	73.1	64.8	175.2	198.6	179.3	80.0
82.5°	22.1	23.4	34.5	49.7	60.7	41.4	37.2	51.0	46.9	45.5	24.8
85°	6.9	6.9	23.4	34.5	27.6	12.4	23.4	17.9	15.2	13.8	8.3
87.5°	1.4	1.4	11.0	12.4	4.1	1.4	2.8	4.1	5.5	6.9	4.1
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°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1
2.5°	572.4	544.8	493.8	449.7	406.9	369.7	343.5	320.0	303.5	299.3	292.4
5°	576.6	522.8	424.8	342.1	270.4	212.4	179.3	157.2	146.2	139.3	139.3
7.5°	580.7	500.7	360.0	249.7	171.0	129.7	109.0	99.3	95.2	93.8	92.4
10°	589.0	484.2	304.8	179.3	117.2	97.9	89.7	85.5	82.8	81.4	81.4
12.5°	602.8	470.4	253.8	132.4	96.6	86.9	81.4	75.9	73.1	71.7	71.7
15°	620.7	460.7	209.7	106.2	88.3	78.6	71.7	66.2	62.1	60.7	60.7
17.5°	645.5	453.8	172.4	93.8	81.4	70.3	62.1	56.6	52.4	51.0	51.0
20°	670.4	453.8	142.1	86.9	74.5	62.1	53.8	46.9	42.8	41.4	41.4
22.5°	703.5	452.4	118.6	80.0	66.2	53.8	45.5	37.2	34.5	33.1	33.1
25°	731.1	452.4	102.1	73.1	57.9	46.9	37.2	30.3	27.6	26.2	26.2
27.5°	764.2	448.3	86.9	64.8	49.7	38.6	30.3	24.8	22.1	20.7	20.7
30°	793.1	442.8	77.2	57.9	42.8	31.7	24.8	19.3	17.9	17.9	17.9
32.5°	841.4	438.6	69.0	49.7	35.9	26.2	19.3	15.2	13.8	13.8	13.8
35°	899.3	438.6	63.5	42.8	30.3	22.1	15.2	12.4	11.0	11.0	11.0
37.5°	975.2	442.8	56.6	37.2	24.8	17.9	12.4	9.7	8.3	8.3	8.3
40°	1055.2	452.4	51.0	33.1	22.1	13.8	9.7	6.9	5.5	6.9	6.9
42.5°	1150.4	462.1	45.5	29.0	17.9	11.0	6.9	4.1	2.8	4.1	4.1
45°	1244.2	471.7	42.8	24.8	15.2	8.3	4.1	2.8	1.4	2.8	2.8
47.5°	1360.0	495.2	40.0	22.1	12.4	6.9	2.8	1.4	0.0	1.4	1.4
50°	1493.8	521.4	35.9	17.9	9.7	5.5	2.8	0.0	0.0	0.0	0.0
52.5°	1622.1	543.5	31.7	15.2	8.3	4.1	1.4	0.0	0.0	0.0	0.0
55°	1750.4	557.3	27.6	12.4	6.9	4.1	1.4	0.0	0.0	0.0	0.0
57.5°	1888.3	565.5	24.8	11.0	5.5	2.8	1.4	0.0	0.0	0.0	0.0
60°	2041.4	565.5	20.7	9.7	4.1	2.8	1.4	0.0	0.0	0.0	0.0
62.5°	2211.1	549.0	19.3	8.3	4.1	2.8	1.4	0.0	0.0	0.0	0.0
65°	2349.0	489.7	16.6	6.9	4.1	2.8	1.4	0.0	0.0	0.0	0.0
67.5°	2354.5	387.6	15.2	5.5	4.1	2.8	1.4	0.0	0.0	0.0	0.0
70°	2099.4	264.8	12.4	4.1	2.8	2.8	1.4	0.0	0.0	0.0	0.0
72.5°	1571.1	142.1	11.0	4.1	2.8	1.4	1.4	0.0	0.0	0.0	0.0
75°	846.9	55.2	6.9	4.1	2.8	1.4	1.4	0.0	0.0	0.0	0.0
77.5°	246.9	27.6	4.1	2.8	2.8	1.4	1.4	0.0	0.0	0.0	0.0
80°	45.5	13.8	2.8	2.8	2.8	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	12.4	5.5	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
85°	5.5	2.8	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.4	1.4	1.4	1.4	1.4	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)