

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: P594922

Luminaire Tested: **ISS-PA1F-830-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1F-830-U-T2U-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6701 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

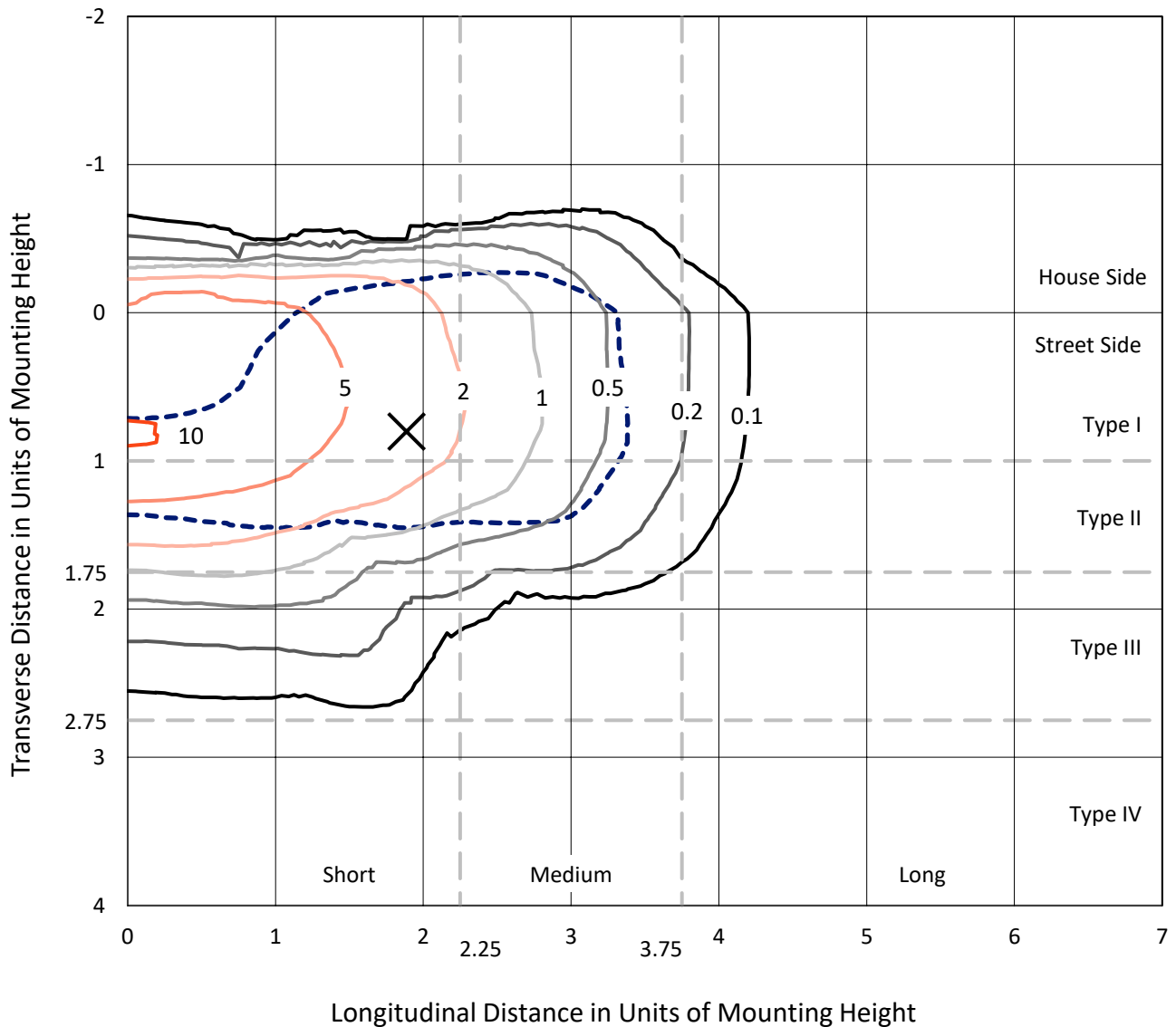
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

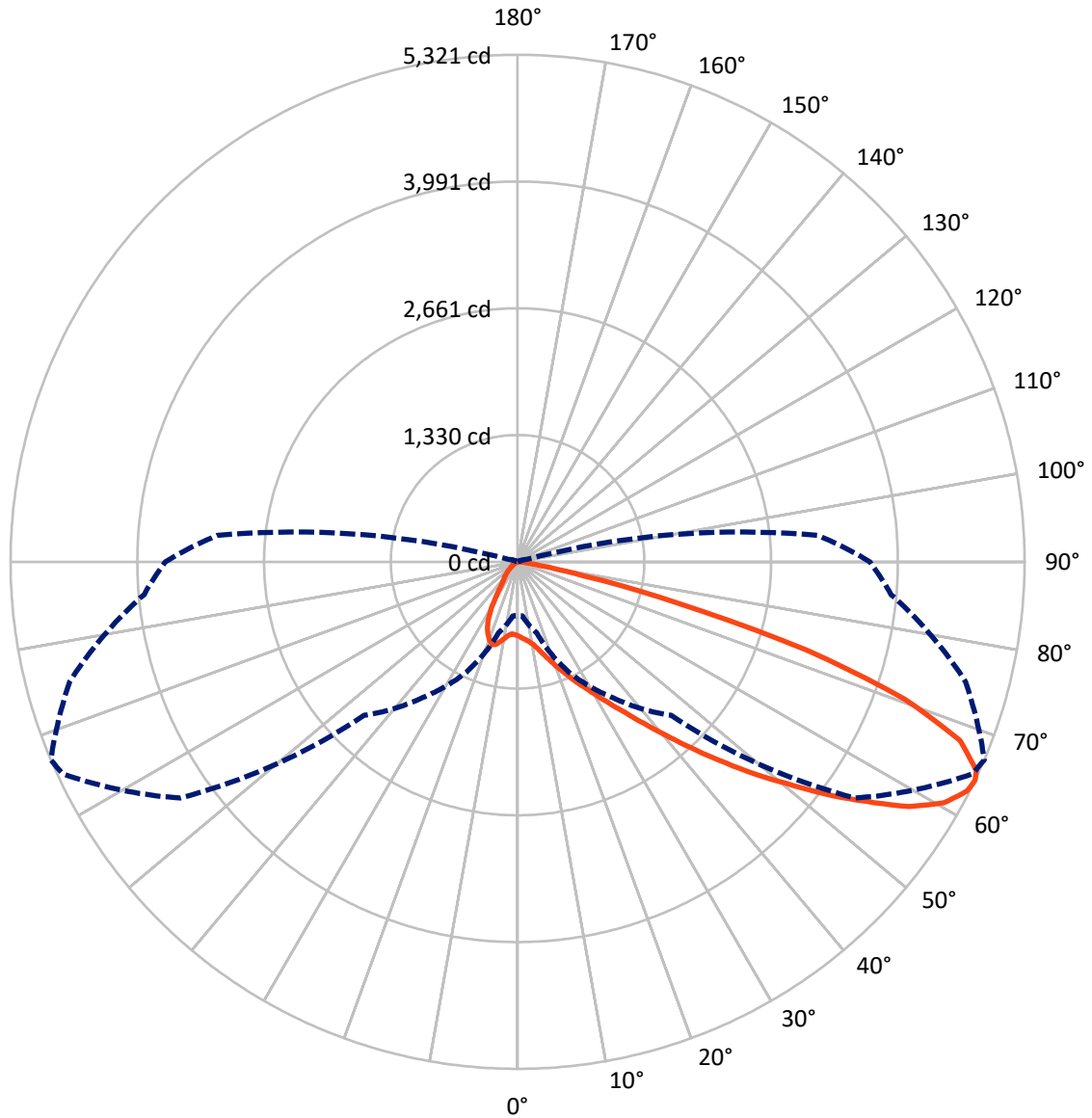
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	857.2	0.0	857.2
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	5843.8	0.0	5843.8
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	6701.0	0.0	6701.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	1.1
10°-20°	218.0	3.3
20°-30°	395.5	5.9
30°-40°	757.7	11.3
40°-50°	1396.5	20.8
50°-60°	1803.7	26.9
60°-70°	1477.4	22.0
70°-80°	543.1	8.1
80°-90°	35.0	0.5
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°	6701.0	100.0
0°-180°	6701.0	100.0

**Coefficient of Utilization**



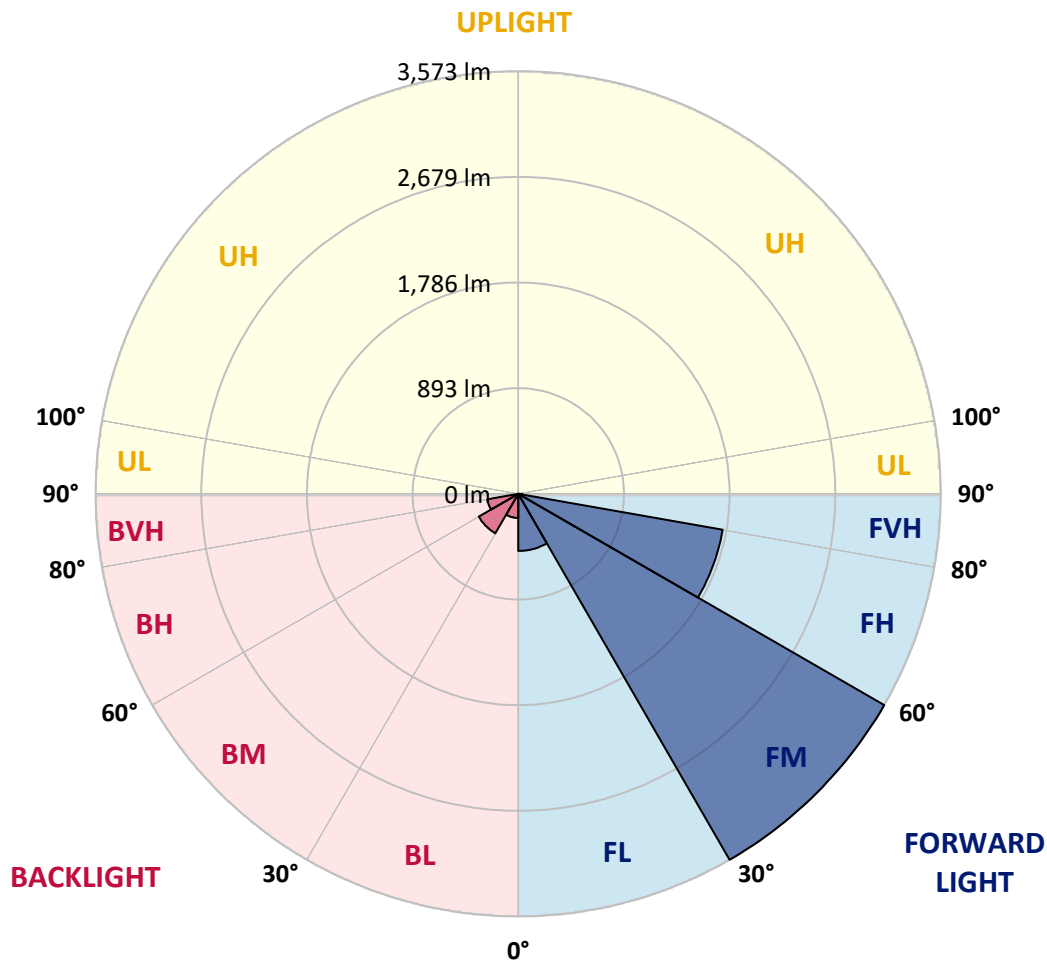
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.1	7.2			
FM (30°-60°)	3572.6	53.3			
FH (60°-80°)	1754.6	26.2			G1/1800
FVH (80°-90°)	33.5	0.5			G1/100
BL (0°-30°)	204.3	3.0	B1/500		
BM (30°-60°)	385.4	5.8	B1/1000		
BH (60°-80°)	265.9	4.0	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	778.6	778.6	778.6	778.6	778.6	778.6	778.6	778.6	778.6	778.6	778.6
2.5°	806.3	806.3	810.9	808.6	808.6	804.0	797.1	799.4	797.1	794.7	787.8
5°	792.4	794.7	797.1	801.7	810.9	815.5	815.5	817.8	817.8	815.5	806.3
7.5°	785.5	790.1	794.7	799.4	810.9	817.8	829.3	843.1	843.1	845.4	836.2
10°	810.9	815.5	822.4	829.3	840.8	852.3	861.6	877.7	877.7	882.3	880.0
12.5°	863.9	863.9	866.2	870.8	886.9	900.7	916.8	930.7	933.0	935.3	928.4
15°	928.4	928.4	930.7	930.7	939.9	960.6	990.6	1004.4	1002.1	999.8	985.9
17.5°	1002.1	1002.1	1002.1	1004.4	1009.0	1020.5	1055.1	1082.7	1080.4	1078.1	1050.5
20°	1071.2	1075.8	1080.4	1082.7	1087.3	1096.5	1133.4	1165.6	1172.5	1163.3	1115.0
22.5°	1149.5	1151.8	1154.1	1161.0	1172.5	1177.1	1214.0	1262.4	1269.3	1257.8	1193.3
25°	1227.8	1232.4	1239.3	1248.6	1260.1	1283.1	1308.5	1373.0	1379.9	1366.0	1278.5
27.5°	1400.6	1398.3	1377.6	1361.4	1363.7	1379.9	1414.4	1483.5	1490.4	1476.6	1363.7
30°	1695.5	1667.8	1628.7	1557.2	1488.1	1495.0	1543.4	1610.2	1621.7	1603.3	1458.2
32.5°	2114.7	2087.1	1990.3	1833.7	1681.6	1631.0	1693.2	1757.7	1771.5	1750.8	1568.8
35°	2522.5	2515.6	2423.4	2234.5	1976.5	1836.0	1852.1	1935.0	1939.6	1914.3	1707.0
37.5°	3027.0	3001.6	2874.9	2663.0	2358.9	2107.8	2061.7	2140.1	2151.6	2121.6	1875.1
40°	3361.0	3351.8	3275.7	3126.0	2798.9	2483.3	2317.4	2393.5	2391.2	2347.4	2068.6
42.5°	3554.5	3559.1	3554.5	3483.1	3296.5	2934.8	2656.1	2660.7	2667.6	2621.5	2292.1
45°	3685.8	3685.8	3692.7	3750.3	3678.9	3473.9	3068.4	2964.8	2974.0	2902.6	2524.8
47.5°	3683.5	3697.3	3734.2	3867.8	3964.5	3976.0	3584.4	3319.5	3314.9	3206.6	2764.3
50°	3434.7	3425.5	3577.5	3877.0	4167.2	4390.7	4072.8	3695.0	3655.8	3522.2	3013.1
52.5°	2874.9	2904.9	3158.3	3598.3	4215.6	4671.7	4494.4	4105.0	4054.4	3835.5	3232.0
55°	2386.5	2418.8	2665.3	3096.1	3953.0	4770.8	4777.7	4540.4	4439.1	4107.4	3457.7
57.5°	1792.2	1854.4	2218.4	2623.8	3377.1	4524.3	4879.1	4957.4	4846.8	4370.0	3642.0
60°	1144.9	1181.8	1589.5	2089.4	2736.7	3879.3	4858.3	5199.3	5139.4	4609.5	3796.4
62.5°	748.7	769.4	1050.5	1573.4	2084.8	2923.3	4611.8	5296.0	5296.0	4770.8	3911.5
64°	564.4	569.0	769.4	1278.5	1739.2	2278.3	4321.6	5266.1	5321.4	4867.5	3934.6
65°	446.9	449.2	601.2	1062.0	1561.9	1868.2	4068.2	5201.6	5291.4	4904.4	3948.4
67.5°	313.3	320.2	389.3	612.8	1119.6	1078.1	3015.4	4897.5	5008.1	4915.9	3930.0
70°	271.8	281.0	327.1	400.8	799.4	626.6	1603.3	4174.2	4305.5	4579.6	3658.1
72.5°	207.3	218.8	274.1	338.6	562.1	423.9	619.7	2964.8	3172.1	3540.7	3020.0
75°	149.7	154.3	202.7	276.4	393.9	327.1	267.2	1529.6	1739.2	2089.4	1877.4
77.5°	94.4	101.4	138.2	207.3	352.5	248.8	158.9	557.5	702.6	909.9	820.1
80°	55.3	57.6	82.9	142.8	237.3	184.3	101.4	198.1	239.6	338.6	218.8
82.5°	32.3	34.6	53.0	96.8	154.3	142.8	64.5	101.4	112.9	129.0	46.1
85°	11.5	11.5	36.9	57.6	82.9	71.4	36.9	53.0	57.6	71.4	13.8
87.5°	2.3	2.3	18.4	29.9	29.9	11.5	18.4	23.0	27.6	39.2	4.6
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°	778.6	778.6	778.6	778.6	778.6	778.6	778.6	778.6	778.6	778.6	778.6
2.5°	785.5	778.6	771.7	762.5	755.6	741.8	734.9	725.6	723.3	718.7	716.4
5°	804.0	792.4	776.3	753.3	739.5	718.7	704.9	691.1	688.8	684.2	681.9
7.5°	829.3	817.8	797.1	771.7	748.7	727.9	711.8	691.1	670.4	654.2	654.2
10°	870.8	856.9	829.3	806.3	778.6	734.9	658.8	589.7	546.0	518.3	509.1
12.5°	921.4	903.0	873.1	845.4	792.4	654.2	536.7	446.9	373.2	338.6	331.7
15°	974.4	958.3	928.4	886.9	727.9	546.0	391.6	253.4	182.0	149.7	154.3
17.5°	1032.0	1009.0	974.4	891.5	640.4	407.7	209.6	129.0	110.6	106.0	106.0
20°	1091.9	1062.0	1027.4	840.8	527.5	235.0	119.8	96.8	89.8	82.9	85.2
22.5°	1156.4	1119.6	1066.6	764.8	377.8	126.7	92.1	78.3	69.1	66.8	66.8
25°	1225.5	1172.5	1105.7	677.3	218.8	96.8	76.0	62.2	55.3	53.0	50.7
27.5°	1299.2	1232.4	1115.0	562.1	124.4	80.6	59.9	48.4	41.5	39.2	39.2
30°	1366.0	1292.3	1094.2	417.0	94.4	66.8	48.4	36.9	32.3	32.3	32.3
32.5°	1455.9	1359.1	1029.7	260.3	76.0	53.0	36.9	29.9	25.3	25.3	25.3
35°	1573.4	1458.2	965.2	138.2	62.2	43.8	29.9	23.0	20.7	20.7	20.7
37.5°	1734.6	1589.5	907.6	87.5	50.7	34.6	23.0	18.4	16.1	16.1	16.1
40°	1900.5	1746.1	827.0	66.8	41.5	27.6	18.4	13.8	11.5	11.5	13.8
42.5°	2107.8	1928.1	734.9	57.6	34.6	23.0	13.8	9.2	6.9	9.2	9.2
45°	2317.4	2119.3	605.9	48.4	29.9	18.4	9.2	4.6	4.6	6.9	6.9
47.5°	2534.0	2322.0	469.9	41.5	25.3	13.8	6.9	2.3	2.3	4.6	4.6
50°	2757.4	2522.5	350.2	36.9	20.7	11.5	4.6	2.3	0.0	2.3	2.3
52.5°	2980.9	2716.0	271.8	32.3	18.4	9.2	2.3	0.0	0.0	0.0	2.3
55°	3188.2	2891.0	216.5	27.6	16.1	6.9	2.3	0.0	0.0	0.0	0.0
57.5°	3363.3	3020.0	172.8	25.3	13.8	4.6	2.3	0.0	0.0	0.0	0.0
60°	3529.1	3121.4	133.6	20.7	11.5	4.6	2.3	0.0	0.0	0.0	0.0
62.5°	3646.6	3160.6	108.3	18.4	9.2	4.6	0.0	0.0	0.0	0.0	0.0
64°	3697.3	3165.2	94.4	16.1	9.2	4.6	2.3	0.0	0.0	0.0	0.0
65°	3727.3	3151.4	87.5	16.1	9.2	4.6	2.3	0.0	0.0	0.0	0.0
67.5°	3734.2	3075.3	66.8	13.8	6.9	2.3	2.3	0.0	0.0	0.0	0.0
70°	3531.4	2810.4	48.4	9.2	4.6	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	2950.9	2147.0	32.3	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0
75°	1842.9	928.4	18.4	6.9	2.3	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	762.5	281.0	11.5	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0
80°	175.1	66.8	4.6	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	41.5	11.5	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	9.2	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.3	2.3	2.3	2.3	2.3	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)