

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: P595291

Luminaire Tested: **IST-PA1E-735-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595291  
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: IST-PA1E-735-U-T2U-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA 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: 6738 lumens  
Efficiency: N/A  
Efficacy: 82.7 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

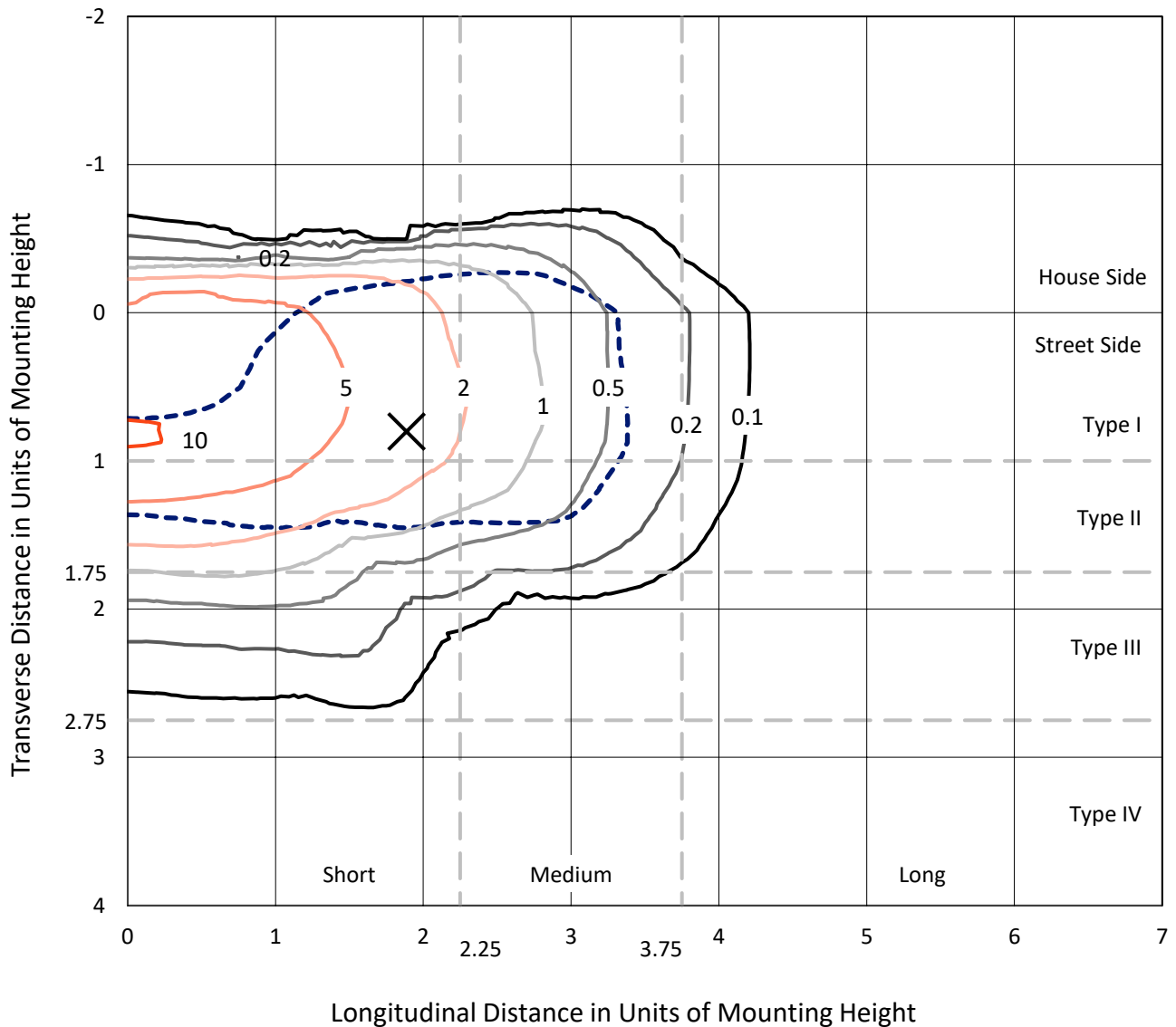
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

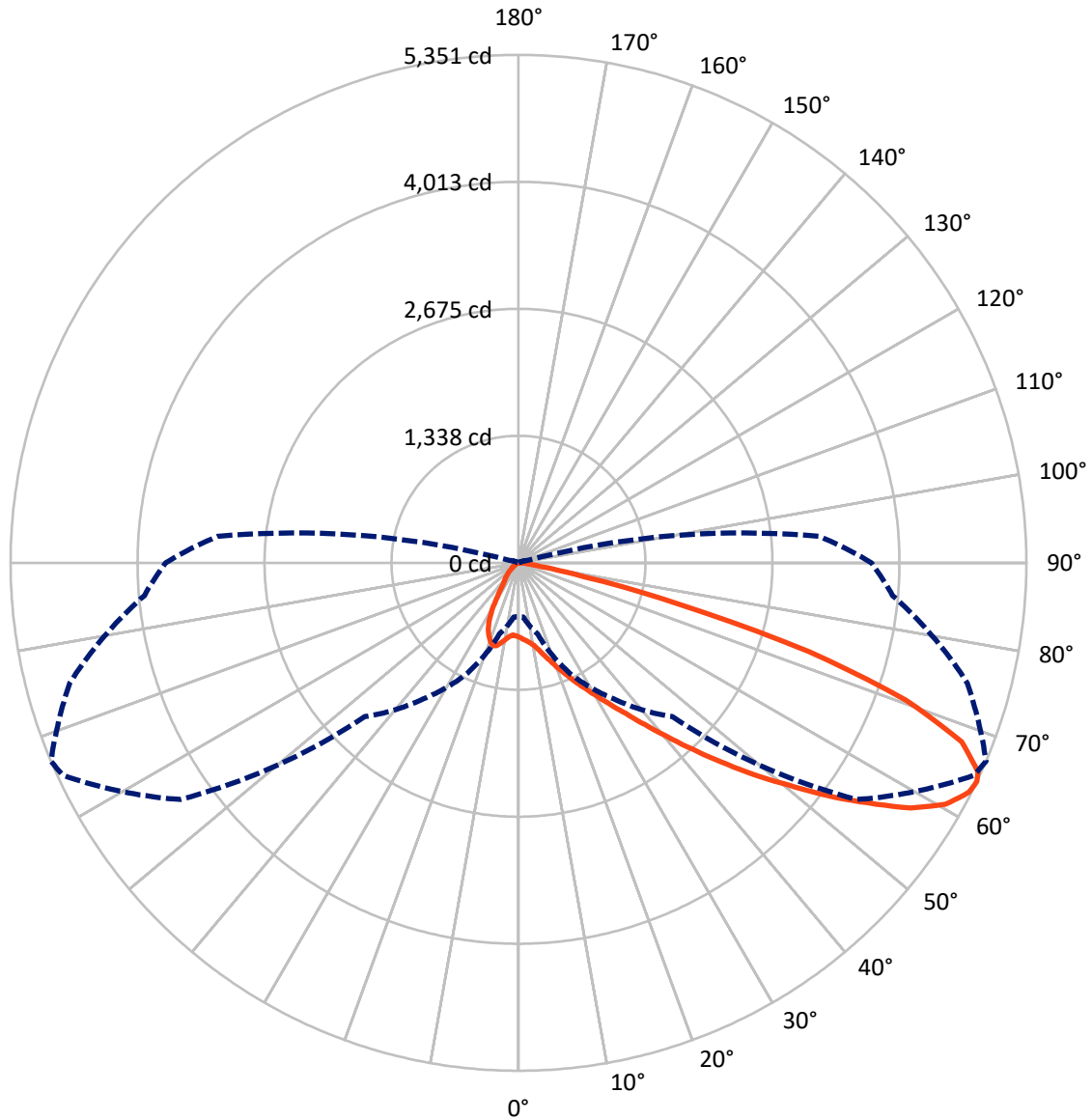
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.4 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	861.9	0.0	861.9
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	5876.1	0.0	5876.1
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	6738.0	0.0	6738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.3	1.1
10°-20°	219.2	3.3
20°-30°	397.7	5.9
30°-40°	761.9	11.3
40°-50°	1404.2	20.8
50°-60°	1813.7	26.9
60°-70°	1485.6	22.0
70°-80°	546.1	8.1
80°-90°	35.2	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°	6738.0	100.0
0°-180°	6738.0	100.0

**Coefficient of Utilization**

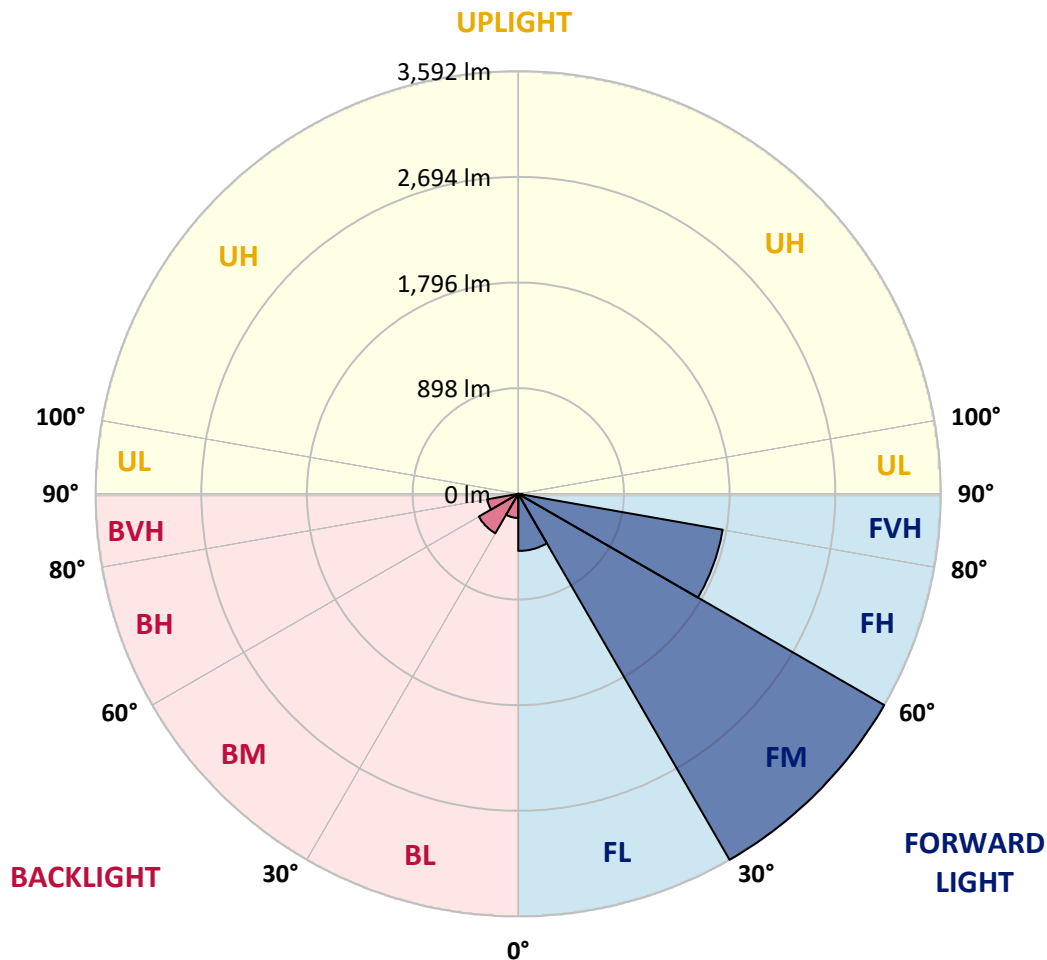


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.8	7.2			
FM (30°-60°)	3592.3	53.3			
FH (60°-80°)	1764.3	26.2			G1/1800
FVH (80°-90°)	33.6	0.5			G1/100
BL (0°-30°)	205.4	3.0	B1/500		
BM (30°-60°)	387.5	5.8	B1/1000		
BH (60°-80°)	267.4	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°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	810.7	810.7	815.4	813.0	813.0	808.4	801.5	803.8	801.5	799.1	792.2
5°	796.8	799.1	801.5	806.1	815.4	820.0	820.0	822.3	822.3	820.0	810.7
7.5°	789.9	794.5	799.1	803.8	815.4	822.3	833.9	847.8	847.8	850.1	840.8
10°	815.4	820.0	826.9	833.9	845.5	857.0	866.3	882.5	882.5	887.2	884.8
12.5°	868.6	868.6	870.9	875.6	891.8	905.7	921.9	935.8	938.1	940.4	933.5
15°	933.5	933.5	935.8	935.8	945.1	965.9	996.0	1009.9	1007.6	1005.3	991.4
17.5°	1007.6	1007.6	1007.6	1009.9	1014.6	1026.1	1060.9	1088.7	1086.4	1084.0	1056.3
20°	1077.1	1081.7	1086.4	1088.7	1093.3	1102.6	1139.6	1172.1	1179.0	1169.8	1121.1
22.5°	1155.9	1158.2	1160.5	1167.4	1179.0	1183.6	1220.7	1269.4	1276.3	1264.7	1199.9
25°	1234.6	1239.2	1246.2	1255.5	1267.0	1290.2	1315.7	1380.5	1387.5	1373.6	1285.6
27.5°	1408.3	1406.0	1385.2	1369.0	1371.3	1387.5	1422.2	1491.7	1498.7	1484.8	1371.3
30°	1704.8	1677.0	1637.7	1565.8	1496.4	1503.3	1551.9	1619.1	1630.7	1612.2	1466.2
32.5°	2126.4	2098.6	2001.3	1843.8	1690.9	1640.0	1702.5	1767.4	1781.3	1760.4	1577.4
35°	2536.4	2529.4	2436.8	2246.8	1987.4	1846.1	1862.3	1945.7	1950.4	1924.9	1716.4
37.5°	3043.7	3018.2	2890.8	2677.7	2371.9	2119.4	2073.1	2151.9	2163.5	2133.3	1885.5
40°	3379.5	3370.3	3293.8	3143.3	2814.4	2497.0	2330.2	2406.7	2404.4	2360.3	2080.1
42.5°	3574.1	3578.7	3574.1	3502.3	3314.7	2951.0	2670.7	2675.4	2682.3	2636.0	2304.8
45°	3706.1	3706.1	3713.1	3771.0	3699.2	3493.0	3085.4	2981.1	2990.4	2918.6	2538.7
47.5°	3703.8	3717.7	3754.8	3889.1	3986.4	3998.0	3604.2	3337.8	3333.2	3224.3	2779.6
50°	3453.7	3444.4	3597.3	3898.4	4190.3	4414.9	4095.3	3715.4	3676.0	3541.7	3029.8
52.5°	2890.8	2920.9	3175.7	3618.1	4238.9	4697.5	4519.2	4127.7	4076.8	3856.7	3249.8
55°	2399.7	2432.2	2680.0	3113.2	3974.8	4797.1	4804.1	4565.5	4463.6	4130.0	3476.8
57.5°	1802.1	1864.7	2230.6	2638.3	3395.8	4549.3	4906.0	4984.8	4873.6	4394.1	3662.1
60°	1151.2	1188.3	1598.3	2100.9	2751.8	3900.7	4885.2	5228.0	5167.8	4635.0	3817.3
62.5°	752.8	773.7	1056.3	1582.1	2096.3	2939.4	4637.3	5325.3	5325.3	4797.1	3933.1
64°	567.5	572.1	773.7	1285.6	1748.8	2290.9	4345.5	5295.1	5350.7	4894.4	3956.3
65°	449.4	451.7	604.6	1067.8	1570.5	1878.6	4090.7	5230.3	5320.6	4931.5	3970.2
67.5°	315.0	322.0	391.5	616.1	1125.7	1084.0	3032.1	4924.5	5035.7	4943.1	3951.7
70°	273.3	282.6	328.9	403.0	803.8	630.0	1612.2	4197.2	4329.2	4604.9	3678.3
72.5°	208.5	220.1	275.6	340.5	565.2	426.2	623.1	2981.1	3189.6	3560.2	3036.7
75°	150.6	155.2	203.8	278.0	396.1	328.9	268.7	1538.0	1748.8	2100.9	1887.8
77.5°	95.0	101.9	139.0	208.5	354.4	250.2	159.8	560.6	706.5	915.0	824.6
80°	55.6	57.9	83.4	143.6	238.6	185.3	101.9	199.2	240.9	340.5	220.1
82.5°	32.4	34.7	53.3	97.3	155.2	143.6	64.9	101.9	113.5	129.7	46.3
85°	11.6	11.6	37.1	57.9	83.4	71.8	37.1	53.3	57.9	71.8	13.9
87.5°	2.3	2.3	18.5	30.1	30.1	11.6	18.5	23.2	27.8	39.4	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°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	789.9	782.9	776.0	766.7	759.8	745.9	738.9	729.6	727.3	722.7	720.4
5°	808.4	796.8	780.6	757.4	743.5	722.7	708.8	694.9	692.6	688.0	685.6
7.5°	833.9	822.3	801.5	776.0	752.8	732.0	715.7	694.9	674.1	657.8	657.8
10°	875.6	861.7	833.9	810.7	782.9	738.9	662.5	593.0	549.0	521.2	511.9
12.5°	926.5	908.0	877.9	850.1	796.8	657.8	539.7	449.4	375.2	340.5	333.6
15°	979.8	963.6	933.5	891.8	732.0	549.0	393.8	254.8	183.0	150.6	155.2
17.5°	1037.7	1014.6	979.8	896.4	643.9	410.0	210.8	129.7	111.2	106.6	106.6
20°	1097.9	1067.8	1033.1	845.5	530.4	236.3	120.4	97.3	90.3	83.4	85.7
22.5°	1162.8	1125.7	1072.5	769.0	379.9	127.4	92.7	78.8	69.5	67.2	67.2
25°	1232.3	1179.0	1111.8	681.0	220.1	97.3	76.4	62.5	55.6	53.3	51.0
27.5°	1306.4	1239.2	1121.1	565.2	125.1	81.1	60.2	48.6	41.7	39.4	39.4
30°	1373.6	1299.5	1100.3	419.3	95.0	67.2	48.6	37.1	32.4	32.4	32.4
32.5°	1463.9	1366.6	1035.4	261.7	76.4	53.3	37.1	30.1	25.5	25.5	25.5
35°	1582.1	1466.2	970.5	139.0	62.5	44.0	30.1	23.2	20.8	20.8	20.8
37.5°	1744.2	1598.3	912.6	88.0	51.0	34.7	23.2	18.5	16.2	16.2	16.2
40°	1911.0	1755.8	831.6	67.2	41.7	27.8	18.5	13.9	11.6	11.6	13.9
42.5°	2119.4	1938.8	738.9	57.9	34.7	23.2	13.9	9.3	6.9	9.3	9.3
45°	2330.2	2131.0	609.2	48.6	30.1	18.5	9.3	4.6	4.6	6.9	6.9
47.5°	2548.0	2334.9	472.5	41.7	25.5	13.9	6.9	2.3	2.3	4.6	4.6
50°	2772.7	2536.4	352.1	37.1	20.8	11.6	4.6	2.3	0.0	2.3	2.3
52.5°	2997.3	2731.0	273.3	32.4	18.5	9.3	2.3	0.0	0.0	0.0	2.3
55°	3205.8	2907.0	217.7	27.8	16.2	6.9	2.3	0.0	0.0	0.0	0.0
57.5°	3381.9	3036.7	173.7	25.5	13.9	4.6	2.3	0.0	0.0	0.0	0.0
60°	3548.6	3138.6	134.3	20.8	11.6	4.6	2.3	0.0	0.0	0.0	0.0
62.5°	3666.8	3178.0	108.9	18.5	9.3	4.6	0.0	0.0	0.0	0.0	0.0
64°	3717.7	3182.6	95.0	16.2	9.3	4.6	2.3	0.0	0.0	0.0	0.0
65°	3747.8	3168.8	88.0	16.2	9.3	4.6	2.3	0.0	0.0	0.0	0.0
67.5°	3754.8	3092.3	67.2	13.9	6.9	2.3	2.3	0.0	0.0	0.0	0.0
70°	3550.9	2825.9	48.6	9.3	4.6	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	2967.2	2158.8	32.4	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0
75°	1853.1	933.5	18.5	6.9	2.3	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	766.7	282.6	11.6	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0
80°	176.0	67.2	4.6	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	41.7	11.6	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	9.3	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)