

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: P595325

Luminaire Tested: **IST-PA1E-827-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595325  
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: IST-PA1E-827-U-T2R-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA 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: 6089 lumens  
Efficiency: N/A  
Efficacy: 74.7 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

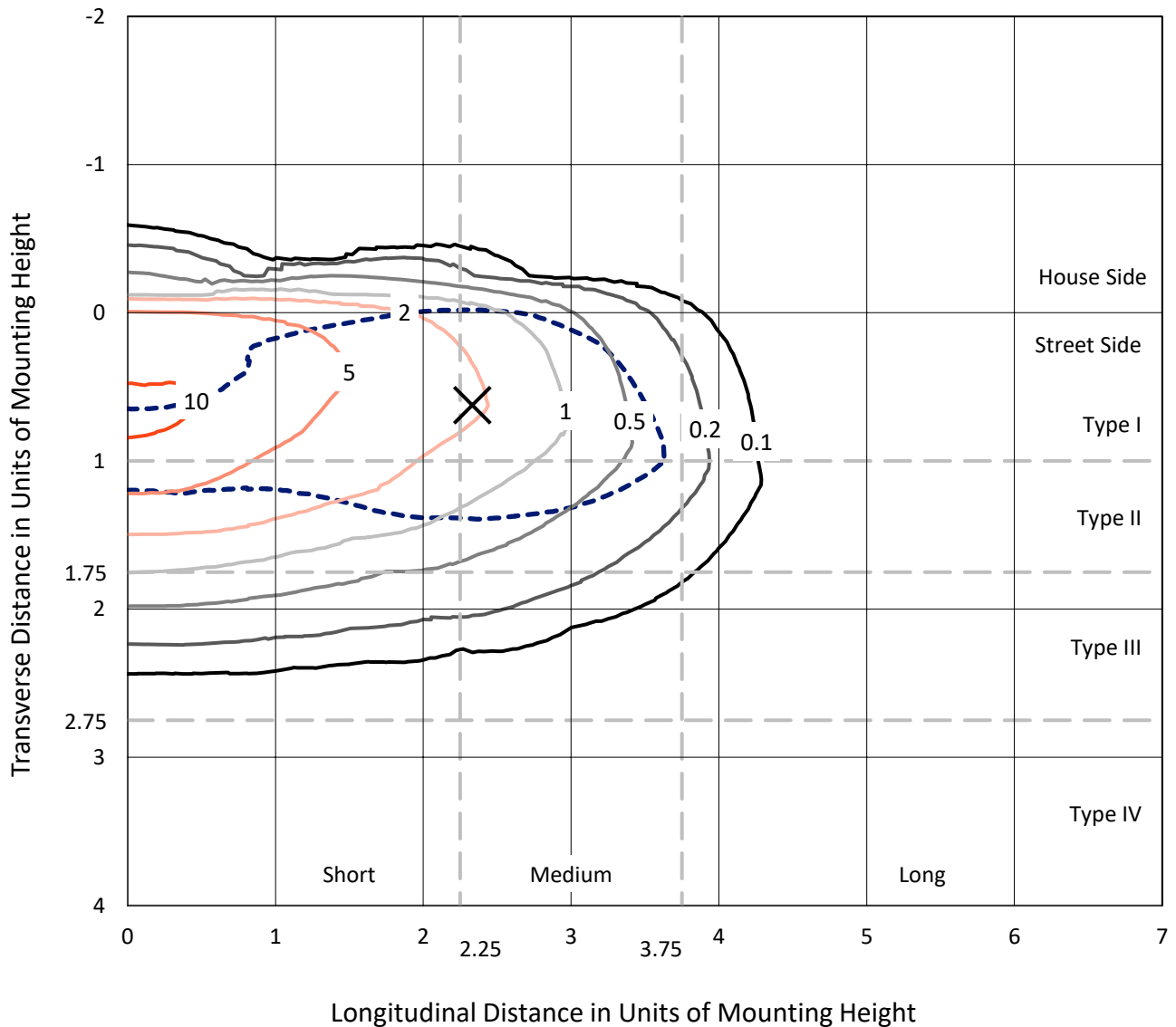
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

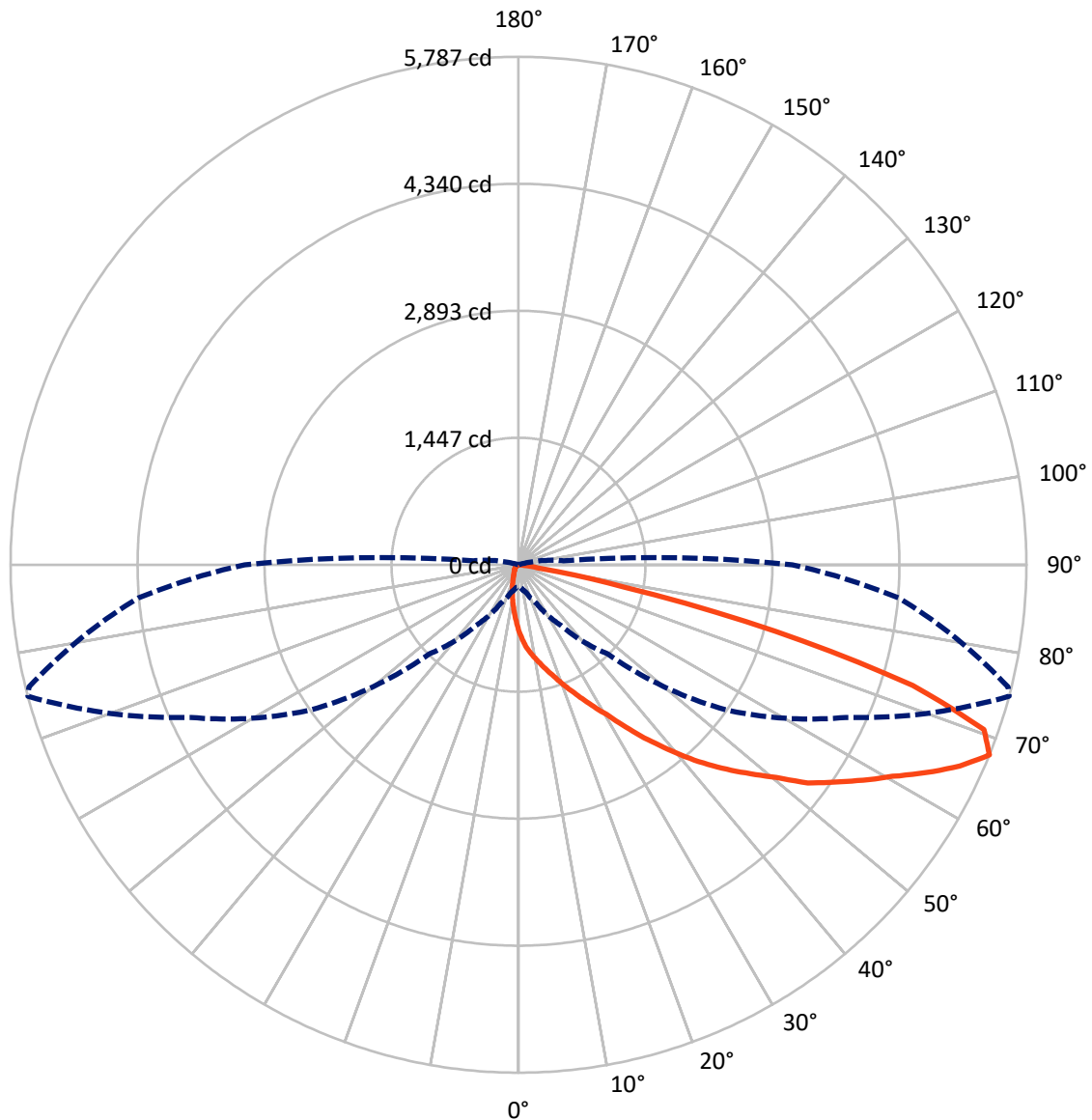
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.9 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	307.0	0.0	307.0
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5782.0	0.0	5782.0
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	6089.0	0.0	6089.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.3	1.1
10°-20°	220.3	3.6
20°-30°	442.7	7.3
30°-40°	837.4	13.8
40°-50°	1252.8	20.6
50°-60°	1446.4	23.8
60°-70°	1282.1	21.1
70°-80°	518.2	8.5
80°-90°	20.7	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°	6089.0	100.0
0°-180°	6089.0	100.0

**Coefficient of Utilization**

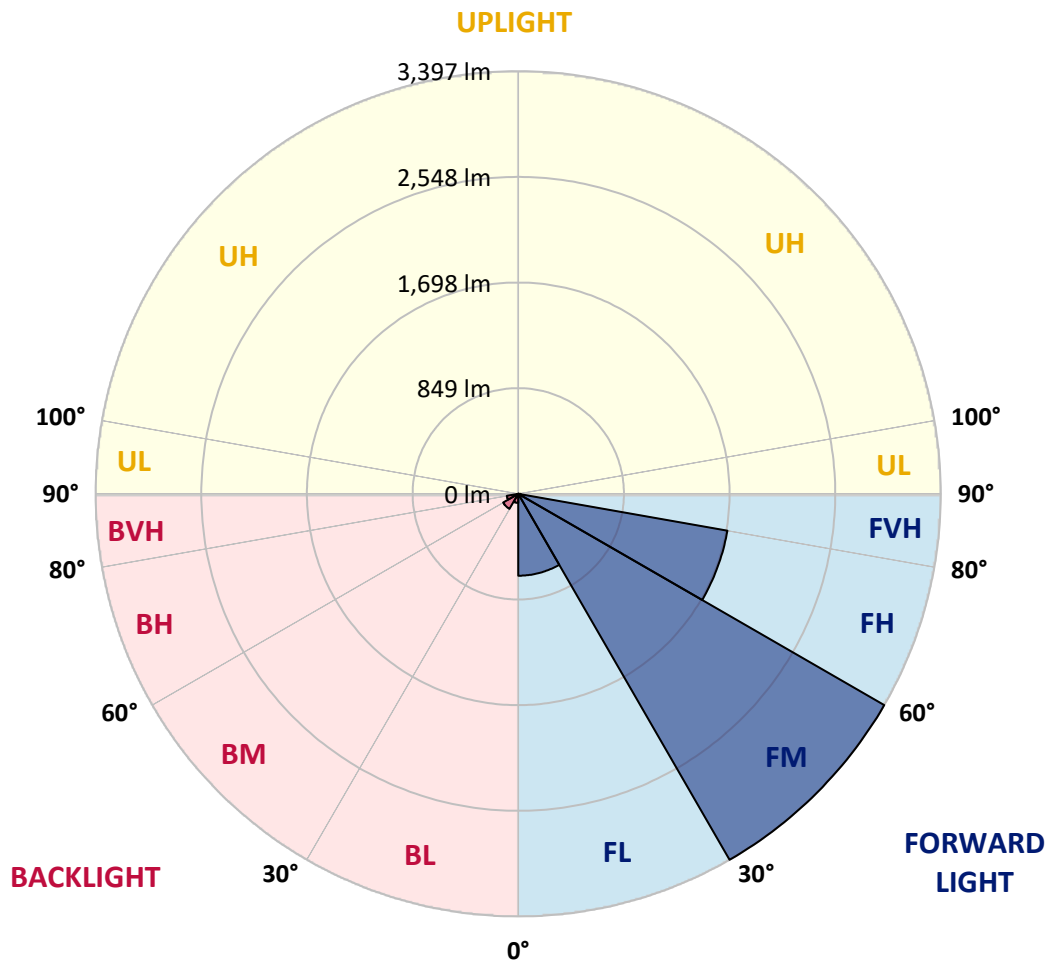


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	658.3	10.8			
FM (30°-60°)	3396.7	55.8			
FH (60°-80°)	1707.3	28.0			G1/1800
FVH (80°-90°)	19.8	0.3			G1/100
BL (0°-30°)	73.0	1.2	B0/110		
BM (30°-60°)	140.0	2.3	B0/220		
BH (60°-80°)	93.1	1.5	B0/110		G0/110
BVH (80°-90°)	0.9	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°	756.7	756.7	756.7	756.7	756.7	756.7	756.7	756.7	756.7	756.7	756.7
2.5°	1052.8	1056.5	1049.2	1032.7	1018.1	983.4	956.0	906.6	853.6	853.6	789.6
5°	1177.1	1173.5	1169.8	1157.0	1146.0	1116.8	1080.2	1027.2	945.0	937.7	831.7
7.5°	1237.4	1233.8	1226.5	1221.0	1221.0	1200.9	1166.2	1111.3	1019.9	1012.6	870.0
10°	1308.7	1301.4	1301.4	1286.8	1283.1	1259.4	1241.1	1193.6	1093.0	1083.9	913.9
12.5°	1392.8	1385.5	1387.3	1374.5	1369.0	1343.5	1317.9	1272.2	1171.6	1162.5	965.1
15°	1440.3	1436.7	1447.6	1449.5	1453.1	1431.2	1407.4	1359.9	1259.4	1246.6	1025.4
17.5°	1467.7	1467.7	1480.5	1504.3	1531.7	1518.9	1500.6	1462.3	1348.9	1341.6	1089.4
20°	1520.7	1515.3	1537.2	1559.1	1593.9	1604.8	1599.3	1570.1	1456.8	1434.8	1158.8
22.5°	1608.5	1601.2	1621.3	1648.7	1690.7	1694.4	1698.0	1683.4	1566.4	1544.5	1232.0
25°	1815.0	1796.8	1778.5	1774.8	1791.3	1805.9	1794.9	1805.9	1690.7	1670.6	1310.5
27.5°	2217.2	2186.1	2098.3	2001.5	1933.8	1946.6	1911.9	1932.0	1833.3	1807.7	1383.7
30°	2602.8	2571.7	2500.5	2328.6	2173.3	2103.8	2052.6	2045.3	1979.5	1950.3	1467.7
32.5°	2871.5	2851.4	2803.9	2688.7	2495.0	2317.7	2219.0	2184.2	2175.1	2129.4	1575.6
35°	3054.3	3036.0	3003.1	2909.9	2767.3	2569.9	2399.9	2323.2	2392.6	2337.8	1698.0
37.5°	3164.0	3151.2	3114.6	3050.6	2973.9	2844.1	2624.8	2502.3	2612.0	2560.8	1855.2
40°	3244.4	3211.5	3185.9	3136.5	3111.0	3068.9	2880.7	2688.7	2849.6	2796.6	2010.6
42.5°	3251.7	3237.1	3217.0	3187.7	3191.4	3218.8	3153.0	2904.4	3089.0	3039.7	2175.1
45°	3249.9	3235.2	3220.6	3191.4	3209.7	3312.0	3372.3	3131.1	3323.0	3271.8	2348.8
47.5°	3196.9	3185.9	3189.6	3189.6	3213.3	3352.2	3542.3	3361.4	3556.9	3507.6	2559.0
50°	3010.4	3021.4	3094.5	3132.9	3174.9	3354.1	3661.1	3602.6	3809.2	3774.5	2761.8
52.5°	2420.0	2482.2	2778.3	2981.2	3103.6	3317.5	3737.9	3856.7	4129.1	4076.0	2992.1
55°	1849.8	1853.4	2138.6	2610.1	2962.9	3251.7	3781.8	4028.5	4372.2	4342.9	3195.0
57.5°	1500.6	1498.8	1639.6	2063.6	2597.3	3147.5	3792.7	4154.6	4629.9	4575.0	3429.0
60°	1226.5	1219.2	1303.2	1564.6	2122.1	2902.6	3752.5	4257.0	4894.9	4874.8	3673.9
62.5°	886.5	893.8	1005.3	1208.2	1635.9	2451.1	3666.6	4288.1	5214.8	5194.7	3948.1
65°	510.0	531.9	654.4	870.0	1253.9	1917.4	3421.7	4264.3	5527.3	5525.5	4202.2
67.5°	255.9	257.7	323.5	486.2	842.6	1434.8	2880.7	4114.4	5786.9	5746.7	4348.4
70°	164.5	168.2	190.1	250.4	466.1	994.3	2200.7	3690.4	5624.2	5609.6	4134.5
72.5°	126.1	129.8	148.1	164.5	243.1	564.8	1489.7	2867.9	4695.7	4655.5	3224.3
75°	98.7	100.5	118.8	133.4	162.7	265.0	747.6	1787.6	3025.0	2920.9	1835.1
77.5°	78.6	80.4	89.6	106.0	124.3	148.1	221.2	804.2	1230.1	1098.5	595.9
80°	51.2	53.0	67.6	82.3	106.0	96.9	85.9	232.1	263.2	237.6	106.0
82.5°	29.2	31.1	45.7	65.8	80.4	54.8	49.4	67.6	62.1	60.3	32.9
85°	9.1	9.1	31.1	45.7	36.6	16.5	31.1	23.8	20.1	18.3	11.0
87.5°	1.8	1.8	14.6	16.5	5.5	1.8	3.7	5.5	7.3	9.1	5.5
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°	756.7	756.7	756.7	756.7	756.7	756.7	756.7	756.7	756.7	756.7	756.7
2.5°	758.5	722.0	654.4	595.9	539.2	489.9	455.1	424.1	402.1	396.6	387.5
5°	764.0	692.7	563.0	453.3	358.3	281.5	237.6	208.4	193.7	184.6	184.6
7.5°	769.5	663.5	477.1	330.8	226.7	171.8	144.4	131.6	126.1	124.3	122.5
10°	780.5	641.6	403.9	237.6	155.4	129.8	118.8	113.3	109.7	107.8	107.8
12.5°	798.8	623.3	336.3	175.5	127.9	115.2	107.8	100.5	96.9	95.0	95.0
15°	822.5	610.5	277.8	140.7	117.0	104.2	95.0	87.7	82.3	80.4	80.4
17.5°	855.4	601.4	228.5	124.3	107.8	93.2	82.3	74.9	69.5	67.6	67.6
20°	888.3	601.4	188.3	115.2	98.7	82.3	71.3	62.1	56.7	54.8	54.8
22.5°	932.2	599.5	157.2	106.0	87.7	71.3	60.3	49.4	45.7	43.9	43.9
25°	968.7	599.5	135.3	96.9	76.8	62.1	49.4	40.2	36.6	34.7	34.7
27.5°	1012.6	594.0	115.2	85.9	65.8	51.2	40.2	32.9	29.2	27.4	27.4
30°	1051.0	586.7	102.4	76.8	56.7	42.0	32.9	25.6	23.8	23.8	23.8
32.5°	1115.0	581.2	91.4	65.8	47.5	34.7	25.6	20.1	18.3	18.3	18.3
35°	1191.7	581.2	84.1	56.7	40.2	29.2	20.1	16.5	14.6	14.6	14.6
37.5°	1292.3	586.7	74.9	49.4	32.9	23.8	16.5	12.8	11.0	11.0	11.0
40°	1398.3	599.5	67.6	43.9	29.2	18.3	12.8	9.1	7.3	9.1	9.1
42.5°	1524.4	612.3	60.3	38.4	23.8	14.6	9.1	5.5	3.7	5.5	5.5
45°	1648.7	625.1	56.7	32.9	20.1	11.0	5.5	3.7	1.8	3.7	3.7
47.5°	1802.2	656.2	53.0	29.2	16.5	9.1	3.7	1.8	0.0	1.8	1.8
50°	1979.5	690.9	47.5	23.8	12.8	7.3	3.7	0.0	0.0	0.0	0.0
52.5°	2149.5	720.2	42.0	20.1	11.0	5.5	1.8	0.0	0.0	0.0	0.0
55°	2319.5	738.4	36.6	16.5	9.1	5.5	1.8	0.0	0.0	0.0	0.0
57.5°	2502.3	749.4	32.9	14.6	7.3	3.7	1.8	0.0	0.0	0.0	0.0
60°	2705.2	749.4	27.4	12.8	5.5	3.7	1.8	0.0	0.0	0.0	0.0
62.5°	2930.0	727.5	25.6	11.0	5.5	3.7	1.8	0.0	0.0	0.0	0.0
65°	3112.8	648.9	21.9	9.1	5.5	3.7	1.8	0.0	0.0	0.0	0.0
67.5°	3120.1	513.6	20.1	7.3	5.5	3.7	1.8	0.0	0.0	0.0	0.0
70°	2781.9	350.9	16.5	5.5	3.7	3.7	1.8	0.0	0.0	0.0	0.0
72.5°	2081.9	188.3	14.6	5.5	3.7	1.8	1.8	0.0	0.0	0.0	0.0
75°	1122.3	73.1	9.1	5.5	3.7	1.8	1.8	0.0	0.0	0.0	0.0
77.5°	327.2	36.6	5.5	3.7	3.7	1.8	1.8	0.0	0.0	0.0	0.0
80°	60.3	18.3	3.7	3.7	3.7	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	16.5	7.3	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	7.3	3.7	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.8	1.8	1.8	1.8	1.8	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)