

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: P595406

Luminaire Tested: **IST-PA1F-827-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595406  
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-PA1F-827-U-T2R-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA 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: 6683 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G2

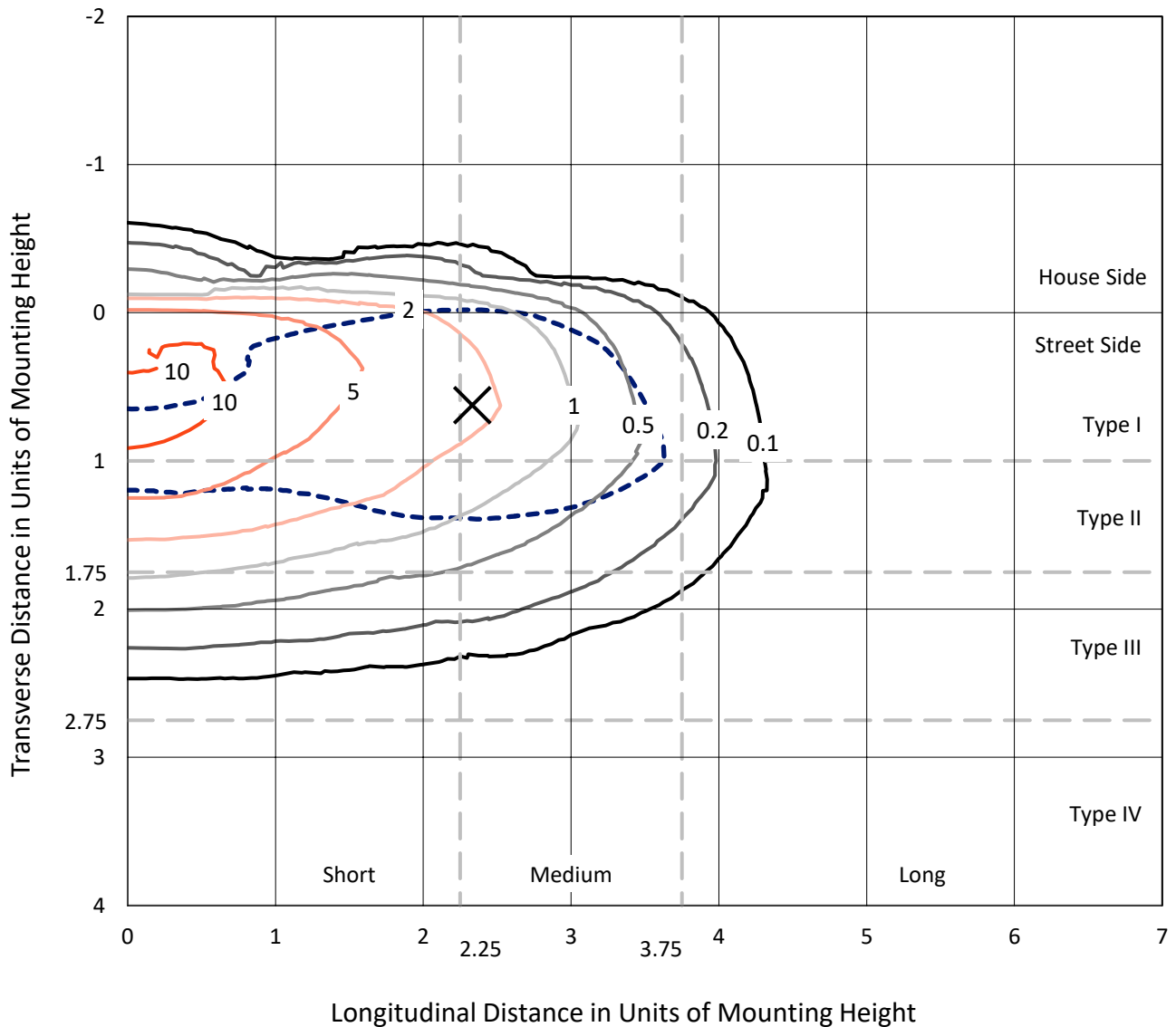
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P595406  
 CATALOG NUMBER: IST-PA1F-827-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

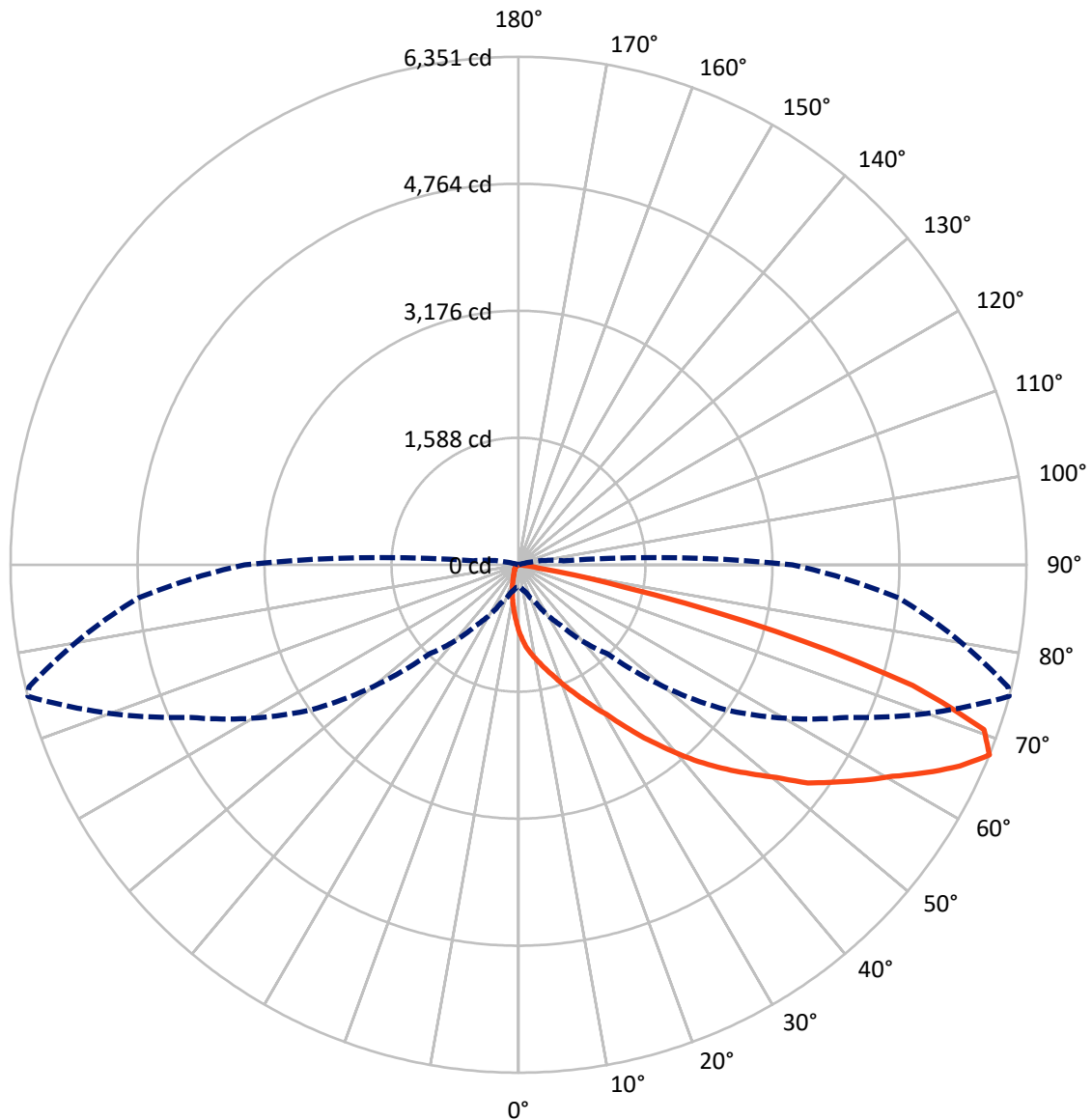
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13.1 fc  
 Type II - Medium - N/A

REPORT NUMBER: P595406  
CATALOG NUMBER: IST-PA1F-827-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P595406  
 CATALOG NUMBER: IST-PA1F-827-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	336.9	0.0	336.9
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	6346.1	0.0	6346.1
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	6683.0	0.0	6683.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.9	1.1
10°-20°	241.7	3.6
20°-30°	485.9	7.3
30°-40°	919.1	13.8
40°-50°	1375.0	20.6
50°-60°	1587.5	23.8
60°-70°	1407.2	21.1
70°-80°	568.8	8.5
80°-90°	22.7	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°	6683.0	100.0
0°-180°	6683.0	100.0

**Coefficient of Utilization**

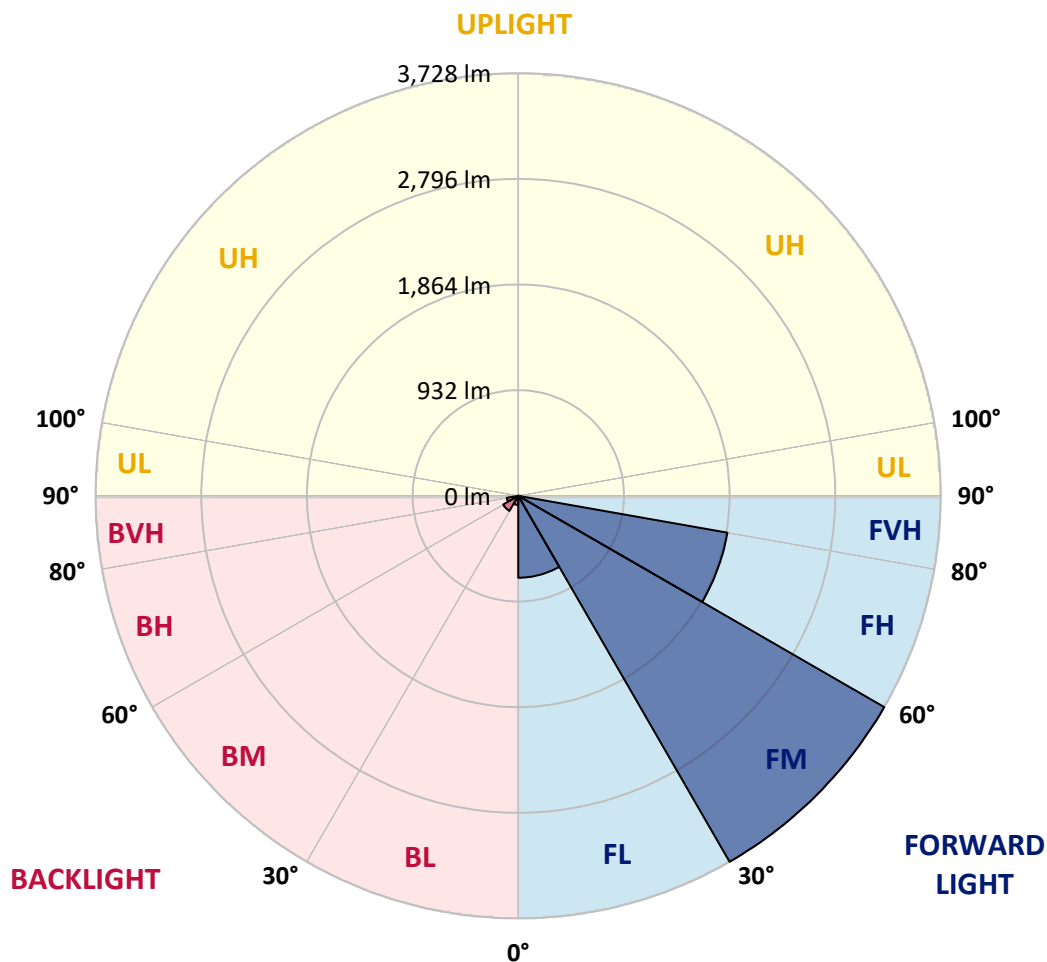


REPORT NUMBER: P595406  
 CATALOG NUMBER: IST-PA1F-827-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.5	10.8			
FM (30°-60°)	3728.0	55.8			
FH (60°-80°)	1873.8	28.0			G2/5000
FVH (80°-90°)	21.7	0.3			G1/100
BL (0°-30°)	80.1	1.2	B0/110		
BM (30°-60°)	153.7	2.3	B0/220		
BH (60°-80°)	102.2	1.5	B0/110		G0/110
BVH (80°-90°)	1.0	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 II Medium





REPORT NUMBER: P595406  
 CATALOG NUMBER: IST-PA1F-827-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5
2.5°	1155.5	1159.5	1151.5	1133.5	1117.4	1079.3	1049.2	995.0	936.9	936.9	866.6
5°	1291.9	1287.9	1283.9	1269.9	1257.8	1225.7	1185.6	1127.4	1037.2	1029.1	912.8
7.5°	1358.2	1354.1	1346.1	1340.1	1340.1	1318.0	1279.9	1219.7	1119.4	1111.4	954.9
10°	1436.4	1428.4	1428.4	1412.3	1408.3	1382.2	1362.2	1310.0	1199.7	1189.6	1003.1
12.5°	1528.7	1520.6	1522.7	1508.6	1502.6	1474.5	1446.4	1396.3	1285.9	1275.9	1059.2
15°	1580.8	1576.8	1588.9	1590.9	1594.9	1570.8	1544.7	1492.6	1382.2	1368.2	1125.4
17.5°	1610.9	1610.9	1625.0	1651.0	1681.1	1667.1	1647.0	1604.9	1480.5	1472.5	1195.7
20°	1669.1	1663.1	1687.2	1711.2	1749.3	1761.4	1755.4	1723.3	1598.9	1574.8	1271.9
22.5°	1765.4	1757.4	1779.4	1809.5	1855.7	1859.7	1863.7	1847.6	1719.3	1695.2	1352.1
25°	1992.1	1972.0	1952.0	1948.0	1966.0	1982.1	1970.0	1982.1	1855.7	1833.6	1438.4
27.5°	2433.4	2399.3	2303.0	2196.7	2122.5	2136.5	2098.4	2120.5	2012.2	1984.1	1518.6
30°	2856.7	2822.6	2744.4	2555.8	2385.3	2309.1	2252.9	2244.9	2172.6	2140.5	1610.9
32.5°	3151.6	3129.6	3077.4	2951.0	2738.4	2543.8	2435.4	2397.3	2387.3	2337.1	1729.3
35°	3352.2	3332.2	3296.1	3193.8	3037.3	2820.6	2634.1	2549.8	2626.0	2565.8	1863.7
37.5°	3472.6	3458.6	3418.5	3348.2	3264.0	3121.5	2880.8	2746.4	2866.8	2810.6	2036.2
40°	3560.9	3524.8	3496.7	3442.5	3414.4	3368.3	3161.7	2951.0	3127.6	3069.4	2206.7
42.5°	3568.9	3552.9	3530.8	3498.7	3502.7	3532.8	3460.6	3187.7	3390.4	3336.2	2387.3
45°	3566.9	3550.9	3534.8	3502.7	3522.8	3635.1	3701.3	3436.5	3647.2	3591.0	2577.9
47.5°	3508.7	3496.7	3500.7	3500.7	3526.8	3679.2	3887.9	3689.3	3903.9	3849.8	2808.6
50°	3304.1	3316.1	3396.4	3438.5	3484.7	3681.3	4018.3	3954.1	4180.8	4142.7	3031.3
52.5°	2656.1	2724.3	3049.3	3272.0	3406.4	3641.1	4102.5	4232.9	4531.9	4473.7	3284.0
55°	2030.2	2034.2	2347.2	2864.8	3251.9	3568.9	4150.7	4421.5	4798.7	4766.6	3506.7
57.5°	1647.0	1645.0	1799.5	2264.9	2850.7	3454.6	4162.7	4559.9	5081.5	5021.4	3763.5
60°	1346.1	1338.1	1430.4	1717.3	2329.1	3185.7	4118.6	4672.3	5372.4	5350.4	4032.3
62.5°	973.0	981.0	1103.4	1326.1	1795.5	2690.2	4024.3	4706.4	5723.5	5701.4	4333.2
65°	559.7	583.8	718.2	954.9	1376.2	2104.4	3755.5	4680.3	6066.5	6064.5	4612.1
67.5°	280.9	282.9	355.1	533.6	924.8	1574.8	3161.7	4515.8	6351.4	6307.3	4772.6
70°	180.6	184.6	208.6	274.8	511.6	1091.3	2415.4	4050.4	6172.9	6156.8	4537.9
72.5°	138.4	142.4	162.5	180.6	266.8	619.9	1635.0	3147.6	5153.8	5109.6	3538.8
75°	108.3	110.3	130.4	146.4	178.5	290.9	820.5	1962.0	3320.2	3205.8	2014.2
77.5°	86.3	88.3	98.3	116.4	136.4	162.5	242.7	882.7	1350.1	1205.7	654.0
80°	56.2	58.2	74.2	90.3	116.4	106.3	94.3	254.8	288.9	260.8	116.4
82.5°	32.1	34.1	50.2	72.2	88.3	60.2	54.2	74.2	68.2	66.2	36.1
85°	10.0	10.0	34.1	50.2	40.1	18.1	34.1	26.1	22.1	20.1	12.0
87.5°	2.0	2.0	16.0	18.1	6.0	2.0	4.0	6.0	8.0	10.0	6.0
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: P595406  
 CATALOG NUMBER: IST-PA1F-827-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5
2.5°	832.5	792.4	718.2	654.0	591.8	537.6	499.5	465.4	441.3	435.3	425.3
5°	838.6	760.3	617.9	497.5	393.2	308.9	260.8	228.7	212.7	202.6	202.6
7.5°	844.6	728.2	523.6	363.1	248.8	188.6	158.5	144.4	138.4	136.4	134.4
10°	856.6	704.2	443.4	260.8	170.5	142.4	130.4	124.4	120.4	118.4	118.4
12.5°	876.7	684.1	369.1	192.6	140.4	126.4	118.4	110.3	106.3	104.3	104.3
15°	902.8	670.0	304.9	154.5	128.4	114.3	104.3	96.3	90.3	88.3	88.3
17.5°	938.9	660.0	250.8	136.4	118.4	102.3	90.3	82.3	76.2	74.2	74.2
20°	975.0	660.0	206.6	126.4	108.3	90.3	78.2	68.2	62.2	60.2	60.2
22.5°	1023.1	658.0	172.5	116.4	96.3	78.2	66.2	54.2	50.2	48.1	48.1
25°	1063.3	658.0	148.5	106.3	84.3	68.2	54.2	44.1	40.1	38.1	38.1
27.5°	1111.4	652.0	126.4	94.3	72.2	56.2	44.1	36.1	32.1	30.1	30.1
30°	1153.5	644.0	112.3	84.3	62.2	46.1	36.1	28.1	26.1	26.1	26.1
32.5°	1223.7	638.0	100.3	72.2	52.2	38.1	28.1	22.1	20.1	20.1	20.1
35°	1308.0	638.0	92.3	62.2	44.1	32.1	22.1	18.1	16.0	16.0	16.0
37.5°	1418.3	644.0	82.3	54.2	36.1	26.1	18.1	14.0	12.0	12.0	12.0
40°	1534.7	658.0	74.2	48.1	32.1	20.1	14.0	10.0	8.0	10.0	10.0
42.5°	1673.1	672.1	66.2	42.1	26.1	16.0	10.0	6.0	4.0	6.0	6.0
45°	1809.5	686.1	62.2	36.1	22.1	12.0	6.0	4.0	2.0	4.0	4.0
47.5°	1978.0	720.2	58.2	32.1	18.1	10.0	4.0	2.0	0.0	2.0	2.0
50°	2172.6	758.3	52.2	26.1	14.0	8.0	4.0	0.0	0.0	0.0	0.0
52.5°	2359.2	790.4	46.1	22.1	12.0	6.0	2.0	0.0	0.0	0.0	0.0
55°	2545.8	810.5	40.1	18.1	10.0	6.0	2.0	0.0	0.0	0.0	0.0
57.5°	2746.4	822.5	36.1	16.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0
60°	2969.1	822.5	30.1	14.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0
62.5°	3215.8	798.4	28.1	12.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0
65°	3416.4	712.2	24.1	10.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0
67.5°	3424.5	563.7	22.1	8.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0
70°	3053.3	385.2	18.1	6.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0
72.5°	2285.0	206.6	16.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
75°	1231.8	80.2	10.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
77.5°	359.1	40.1	6.0	4.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
80°	66.2	20.1	4.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.1	8.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	4.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	2.0	2.0	2.0	2.0	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)