

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: P595331

Luminaire Tested: **IST-PA1E-827-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
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-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5414 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

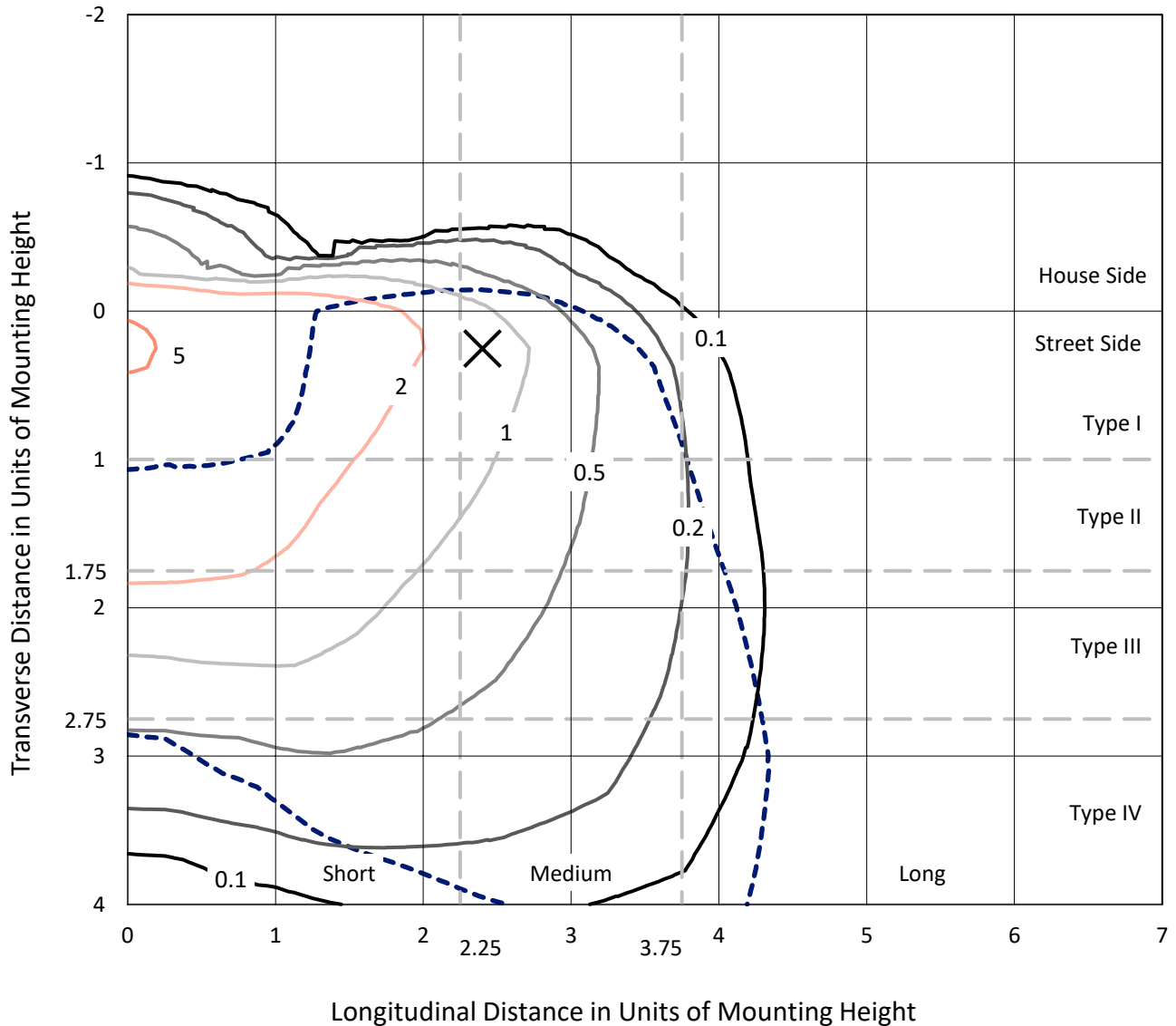
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

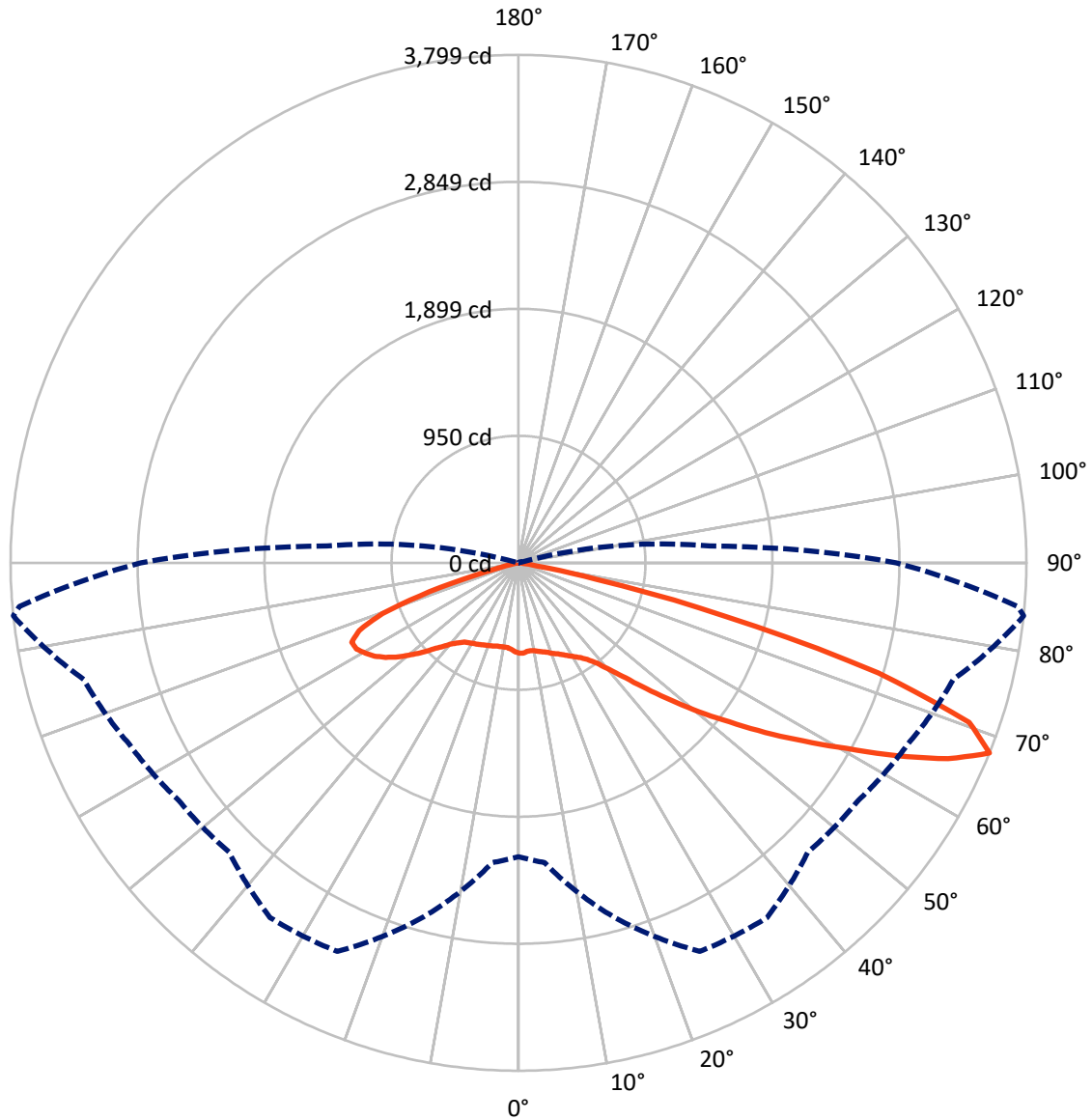
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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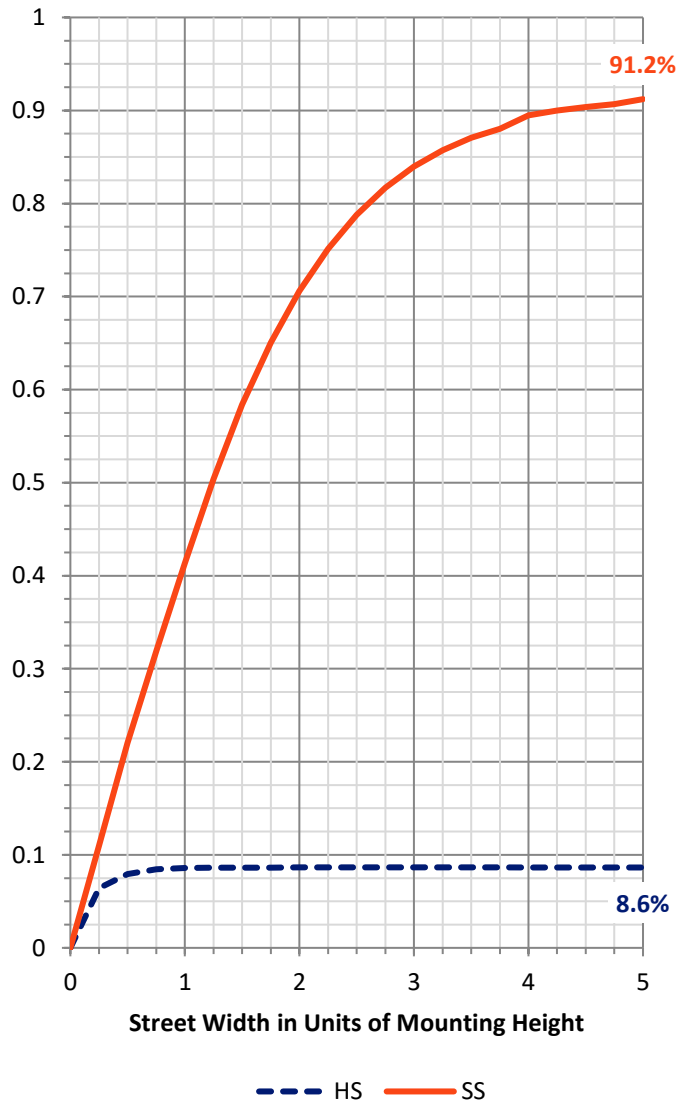
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	471.4	0.0	471.4
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	4942.6	0.0	4942.6
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	5414.0	0.0	5414.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.5	1.1
10°-20°	158.2	2.9
20°-30°	253.4	4.7
30°-40°	364.6	6.7
40°-50°	625.8	11.6
50°-60°	1093.4	20.2
60°-70°	1565.8	28.9
70°-80°	1176.9	21.7
80°-90°	115.5	2.1
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°	5414.0	100.0
0°-180°	5414.0	100.0

**Coefficient of Utilization**

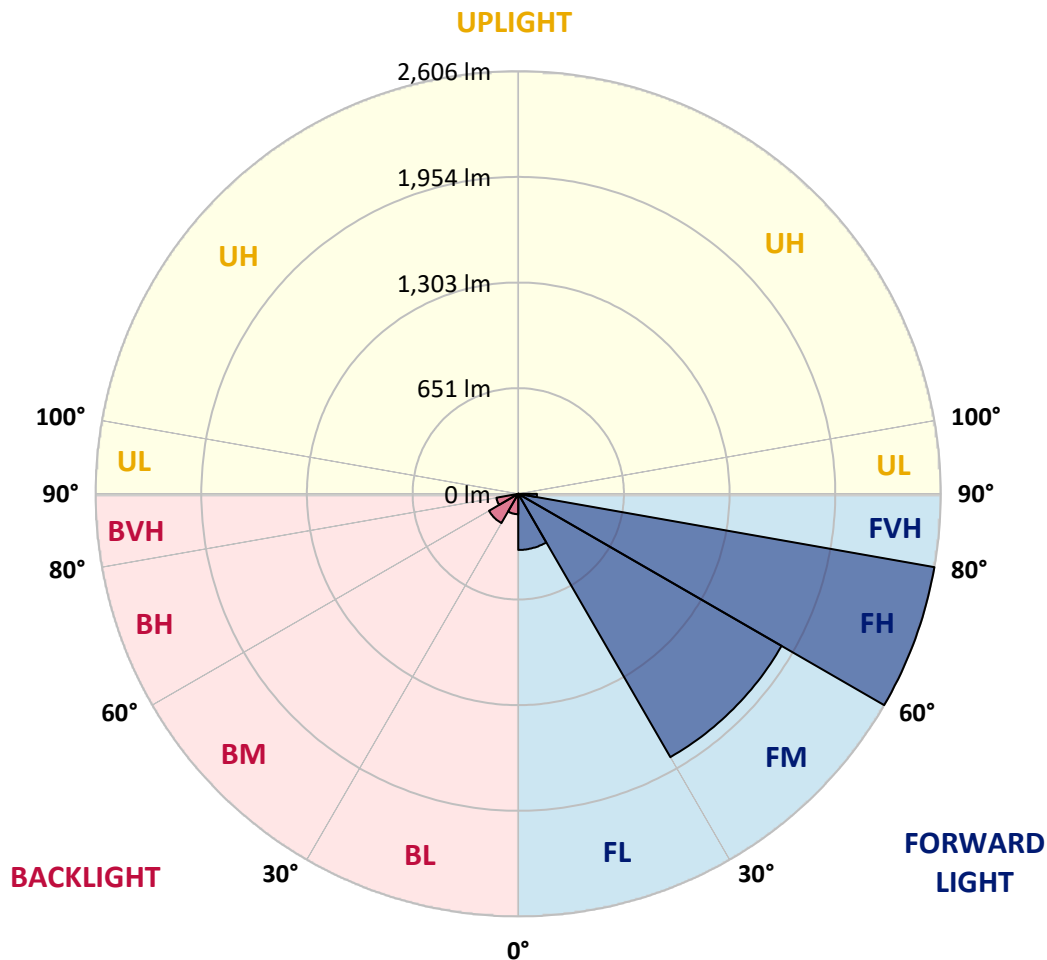


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.1	6.4			
FM (30°-60°)	1875.4	34.6			
FH (60°-80°)	2606.0	48.1			G2/5000
FVH (80°-90°)	115.1	2.1			G2/225
BL (0°-30°)	125.9	2.3	B1/500		
BM (30°-60°)	208.5	3.9	B0/220		
BH (60°-80°)	136.7	2.5	B1/500		G1/500
BVH (80°-90°)	0.4	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-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5
2.5°	712.9	716.6	718.4	709.3	709.3	701.9	691.0	687.3	681.8	676.3	674.5
5°	749.5	754.9	753.1	742.2	736.7	722.0	707.4	692.8	678.2	665.4	665.4
7.5°	791.5	793.3	787.9	769.6	758.6	738.5	716.6	700.1	681.8	663.6	659.9
10°	828.1	826.2	818.9	800.6	780.5	754.9	731.2	712.9	691.0	669.0	667.2
12.5°	853.7	855.5	846.3	820.8	800.6	771.4	747.6	729.4	703.8	680.0	674.5
15°	875.6	881.1	870.1	844.5	815.3	789.7	771.4	747.6	718.4	691.0	687.3
17.5°	895.7	897.5	888.4	859.1	831.7	809.8	789.7	767.7	738.5	703.8	700.1
20°	906.7	912.2	906.7	870.1	844.5	828.1	811.6	789.7	756.8	723.9	720.2
22.5°	914.0	919.5	917.6	877.4	855.5	842.7	828.1	808.0	776.9	738.5	734.8
25°	917.6	921.3	925.0	884.7	866.5	861.0	848.2	829.9	800.6	760.4	756.8
27.5°	923.1	926.8	930.4	893.9	886.6	881.1	877.4	862.8	828.1	786.0	780.5
30°	932.3	937.7	941.4	910.3	910.3	915.8	915.8	895.7	857.3	813.4	809.8
32.5°	943.2	945.1	952.4	926.8	935.9	948.7	945.1	925.0	884.7	844.5	839.0
35°	972.5	972.5	985.3	952.4	963.3	974.3	978.0	963.3	926.8	886.6	884.7
37.5°	1043.8	1043.8	1054.7	1001.7	999.9	1010.9	1023.7	1023.7	987.1	950.5	946.9
40°	1204.6	1204.6	1204.6	1082.2	1062.0	1074.8	1095.0	1105.9	1074.8	1049.3	1049.3
42.5°	1473.3	1475.2	1447.7	1230.2	1144.3	1166.2	1188.2	1211.9	1195.5	1177.2	1173.6
45°	1751.2	1742.1	1738.4	1447.7	1290.5	1279.6	1307.0	1347.2	1352.7	1341.7	1349.0
47.5°	1941.3	1950.4	1955.9	1718.3	1495.3	1420.3	1445.9	1502.6	1535.5	1533.7	1544.6
50°	2125.9	2131.4	2136.9	2016.2	1765.8	1597.6	1614.1	1690.9	1736.6	1751.2	1758.5
52.5°	2286.8	2272.2	2295.9	2279.5	2052.8	1800.5	1800.5	1888.3	1970.5	1976.0	1974.2
55°	2334.3	2343.5	2414.7	2464.1	2347.1	2049.1	2012.6	2105.8	2193.6	2239.3	2239.3
57.5°	2440.3	2449.5	2535.4	2646.9	2561.0	2294.1	2239.3	2330.7	2425.7	2513.5	2526.2
60°	2579.3	2581.1	2672.5	2842.5	2723.7	2515.3	2469.6	2573.8	2668.8	2818.7	2860.8
62.5°	2654.2	2661.5	2787.6	3010.7	2928.4	2709.0	2698.1	2793.1	2915.6	3178.8	3217.2
65°	2539.0	2586.6	2860.8	3111.2	3094.7	2890.0	2928.4	3005.2	3145.9	3531.6	3568.2
67.5°	2197.2	2250.2	2740.1	3206.3	3239.2	3060.0	3100.2	3211.7	3367.1	3798.5	3747.3
70°	2023.6	2067.4	2447.6	3259.3	3359.8	3250.1	3268.4	3372.6	3418.3	3575.5	3520.7
72.5°	1533.7	1579.4	2071.1	3078.3	3464.0	3449.4	3403.7	3317.8	3047.2	2813.2	2679.8
75°	678.2	731.2	1378.3	2405.6	3206.3	3562.7	3321.4	2840.7	2188.1	1597.6	1480.7
77.5°	299.8	330.9	533.8	1336.2	2409.3	3083.8	2626.8	1893.8	1098.6	594.1	552.0
80°	96.9	100.5	168.2	468.0	1232.0	2041.8	1608.6	910.3	338.2	138.9	129.8
82.5°	38.4	42.0	80.4	197.4	510.0	811.6	789.7	329.0	98.7	36.6	36.6
85°	11.0	12.8	40.2	104.2	181.0	228.5	279.7	109.7	53.0	11.0	11.0
87.5°	3.7	3.7	14.6	32.9	34.7	23.8	53.0	42.0	32.9	3.7	3.7
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°	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5	674.5
2.5°	670.9	667.2	658.1	650.8	647.1	641.6	634.3	630.6	630.6	628.8	623.3
5°	658.1	652.6	636.1	625.2	616.0	595.9	581.3	563.0	544.7	539.2	544.7
7.5°	652.6	641.6	619.7	597.7	559.4	506.3	471.6	433.2	420.4	404.0	405.8
10°	654.4	641.6	610.5	561.2	486.2	407.6	352.8	301.6	276.0	263.2	265.1
12.5°	659.9	645.3	601.4	511.8	404.0	308.9	224.8	184.6	177.3	177.3	177.3
15°	670.9	648.9	586.8	453.3	316.2	204.7	159.0	155.4	160.9	166.3	168.2
17.5°	681.8	659.9	564.8	393.0	230.3	153.5	148.1	148.1	153.5	159.0	160.9
20°	694.6	670.9	533.8	329.0	164.5	144.4	142.6	140.8	144.4	149.9	151.7
22.5°	714.7	681.8	497.2	254.1	142.6	138.9	135.3	133.4	135.3	140.8	142.6
25°	733.0	696.5	458.8	188.3	133.4	129.8	128.0	126.1	126.1	129.8	131.6
27.5°	754.9	712.9	416.8	140.8	122.5	120.6	118.8	117.0	115.2	118.8	120.6
30°	782.4	727.5	371.1	118.8	111.5	109.7	107.8	106.0	104.2	106.0	107.8
32.5°	817.1	747.6	318.1	107.8	102.4	96.9	95.1	95.1	93.2	93.2	95.1
35°	862.8	769.6	261.4	100.5	93.2	87.7	82.3	80.4	80.4	80.4	82.3
37.5°	930.4	809.8	206.6	93.2	85.9	76.8	71.3	65.8	65.8	65.8	65.8
40°	1023.7	853.7	160.9	87.7	80.4	67.6	60.3	53.0	49.4	47.5	49.4
42.5°	1168.1	919.5	124.3	80.4	76.8	60.3	49.4	40.2	32.9	31.1	32.9
45°	1327.1	990.8	98.7	74.9	69.5	51.2	38.4	27.4	20.1	18.3	20.1
47.5°	1528.2	1080.3	84.1	67.6	60.3	42.0	27.4	14.6	9.1	11.0	11.0
50°	1721.9	1168.1	76.8	62.2	53.0	34.7	16.5	7.3	3.7	5.5	5.5
52.5°	1935.8	1261.3	71.3	54.8	45.7	25.6	9.1	1.8	0.0	1.8	1.8
55°	2151.5	1345.4	65.8	49.4	36.6	18.3	3.7	0.0	0.0	0.0	1.8
57.5°	2385.5	1416.7	60.3	42.0	27.4	11.0	1.8	0.0	0.0	0.0	0.0
60°	2581.1	1471.5	54.8	36.6	18.3	5.5	0.0	0.0	0.0	0.0	0.0
62.5°	2760.2	1520.9	42.0	27.4	11.0	3.7	0.0	0.0	0.0	0.0	0.0
65°	2879.0	1531.8	29.2	18.3	7.3	1.8	0.0	0.0	0.0	0.0	0.0
67.5°	2826.0	1436.8	18.3	12.8	3.7	1.8	0.0	0.0	0.0	0.0	0.0
70°	2484.2	1206.5	12.8	7.3	1.8	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	1738.4	778.7	11.0	5.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0
75°	917.6	281.5	7.3	3.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	325.4	62.2	3.7	1.8	0.0	1.8	0.0	0.0	0.0	0.0	0.0
80°	71.3	12.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.0	0.0	0.0	0.0	0.0	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)