

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: P595205

Luminaire Tested: **IST-PA1D-730-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595205  
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-PA1D-730-U-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3000K, 800mA 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: 5446 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

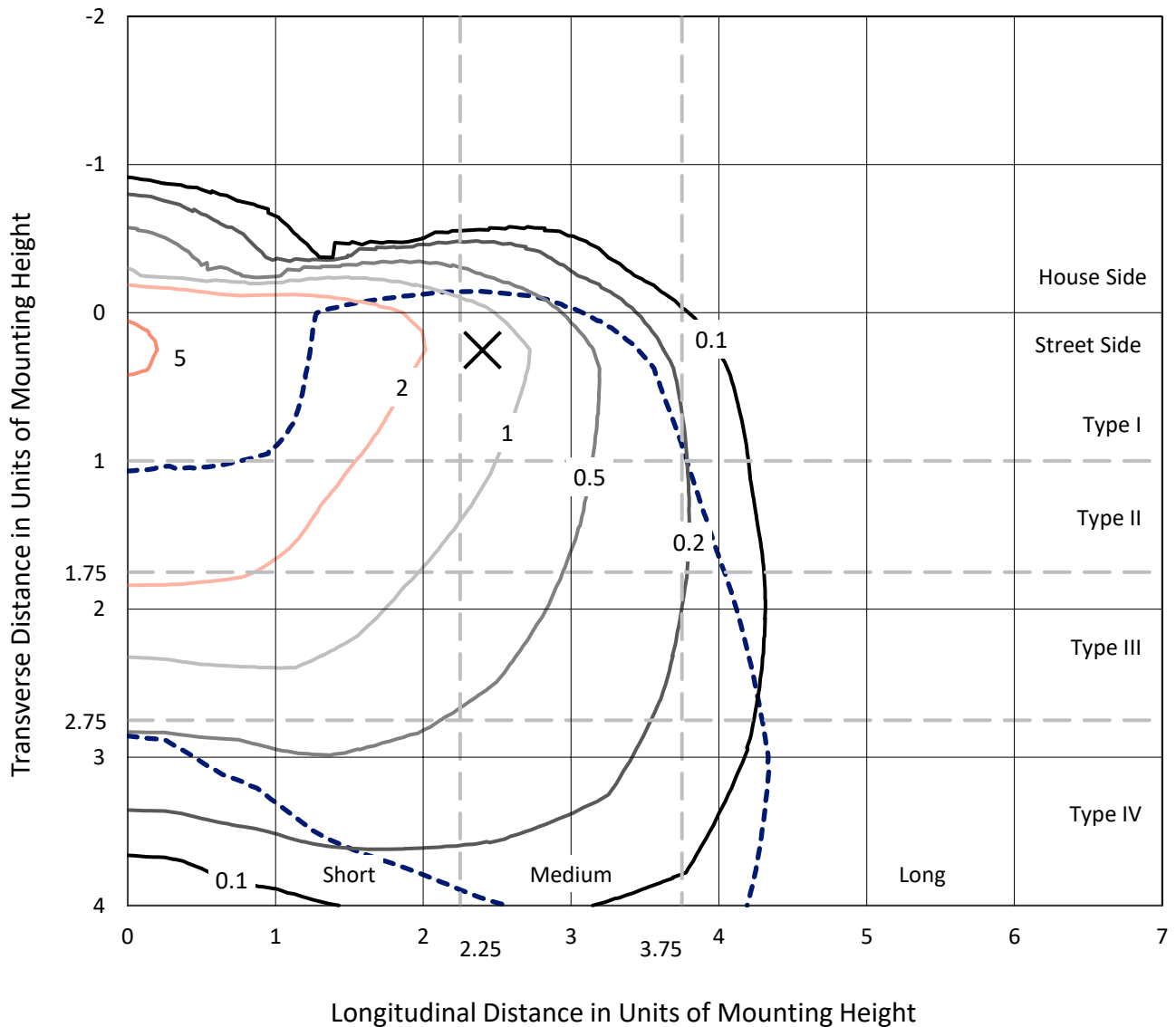
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

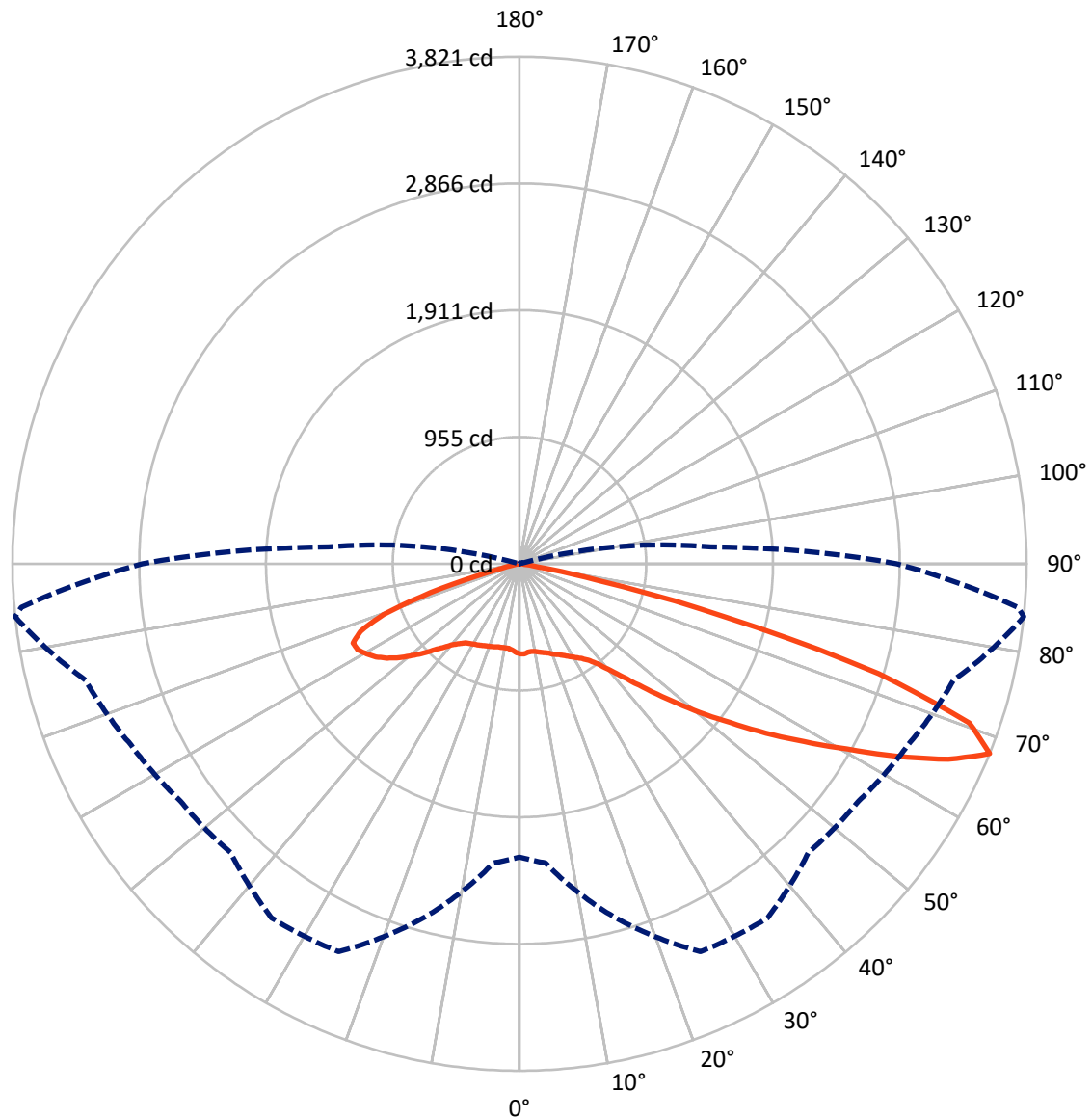
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 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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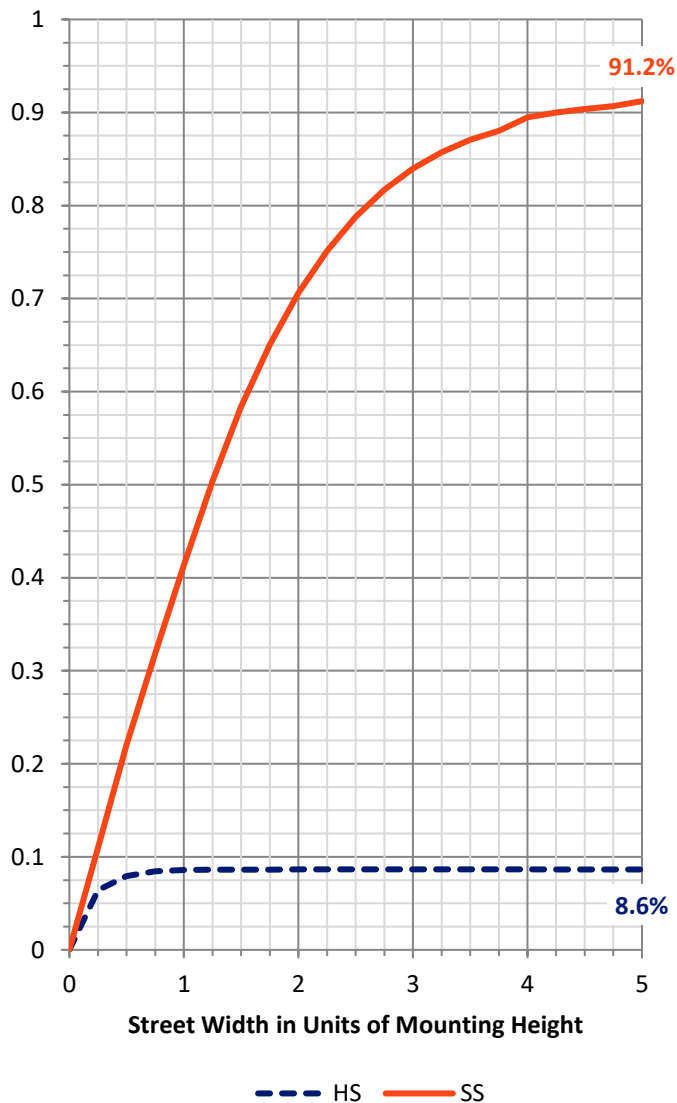
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	474.2	0.0	474.2
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	4971.8	0.0	4971.8
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	5446.0	0.0	5446.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	1.1
10°-20°	159.1	2.9
20°-30°	254.9	4.7
30°-40°	366.8	6.7
40°-50°	629.5	11.6
50°-60°	1099.9	20.2
60°-70°	1575.0	28.9
70°-80°	1183.8	21.7
80°-90°	116.2	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°	5446.0	100.0
0°-180°	5446.0	100.0

**Coefficient of Utilization**

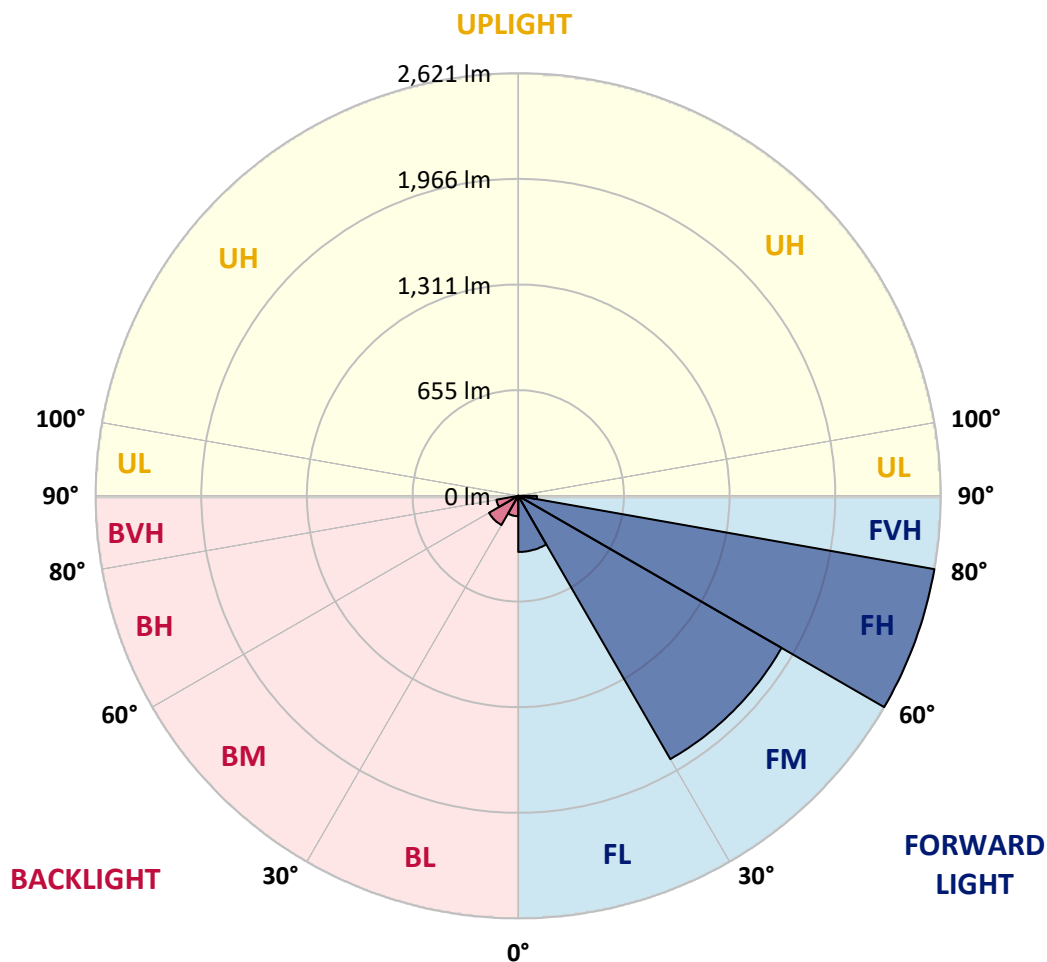


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.2	6.4			
FM (30°-60°)	1886.4	34.6			
FH (60°-80°)	2621.4	48.1			G2/5000
FVH (80°-90°)	115.8	2.1			G2/225
BL (0°-30°)	126.6	2.3	B1/500		
BM (30°-60°)	209.7	3.9	B0/220		
BH (60°-80°)	137.5	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°	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5
2.5°	717.1	720.8	722.6	713.4	713.4	706.1	695.1	691.4	685.9	680.3	678.5
5°	753.9	759.4	757.6	746.5	741.0	726.3	711.6	696.9	682.2	669.3	669.3
7.5°	796.2	798.0	792.5	774.1	763.1	742.9	720.8	704.2	685.9	667.5	663.8
10°	833.0	831.1	823.8	805.4	785.2	759.4	735.5	717.1	695.1	673.0	671.2
12.5°	858.7	860.5	851.4	825.6	805.4	776.0	752.1	733.7	707.9	684.0	678.5
15°	880.8	886.3	875.3	849.5	820.1	794.3	776.0	752.1	722.6	695.1	691.4
17.5°	901.0	902.8	893.6	864.2	836.6	814.6	794.3	772.3	742.9	707.9	704.2
20°	912.0	917.5	912.0	875.3	849.5	833.0	816.4	794.3	761.3	728.2	724.5
22.5°	919.4	924.9	923.1	882.6	860.5	847.7	833.0	812.7	781.5	742.9	739.2
25°	923.1	926.7	930.4	890.0	871.6	866.1	853.2	834.8	805.4	764.9	761.3
27.5°	928.6	932.3	935.9	899.2	891.8	886.3	882.6	867.9	833.0	790.7	785.2
30°	937.8	943.3	947.0	915.7	915.7	921.2	921.2	901.0	862.4	818.3	814.6
32.5°	948.8	950.6	958.0	932.3	941.5	954.3	950.6	930.4	890.0	849.5	844.0
35°	978.2	978.2	991.1	958.0	969.0	980.1	983.7	969.0	932.3	891.8	890.0
37.5°	1049.9	1049.9	1061.0	1007.6	1005.8	1016.8	1029.7	1029.7	992.9	956.2	952.5
40°	1211.7	1211.7	1211.7	1088.6	1068.3	1081.2	1101.4	1112.5	1081.2	1055.5	1055.5
42.5°	1482.0	1483.9	1456.3	1237.5	1151.1	1173.1	1195.2	1219.1	1202.6	1184.2	1180.5
45°	1761.5	1752.3	1748.7	1456.3	1298.2	1287.1	1314.7	1355.2	1360.7	1349.7	1357.0
47.5°	1952.8	1962.0	1967.5	1728.4	1504.1	1428.7	1454.5	1511.5	1544.6	1542.7	1553.8
50°	2138.5	2144.0	2149.5	2028.2	1776.3	1607.1	1623.6	1700.9	1746.8	1761.5	1768.9
52.5°	2300.3	2285.6	2309.5	2292.9	2064.9	1811.2	1811.2	1899.4	1982.2	1987.7	1985.9
55°	2348.1	2357.3	2429.0	2478.7	2361.0	2061.3	2024.5	2118.3	2206.5	2252.5	2252.5
57.5°	2454.8	2464.0	2550.4	2662.5	2576.1	2307.7	2252.5	2344.4	2440.0	2528.3	2541.2
60°	2594.5	2596.3	2688.3	2859.3	2739.8	2530.1	2484.2	2589.0	2684.6	2835.4	2877.7
62.5°	2669.9	2677.2	2804.1	3028.5	2945.7	2725.1	2714.0	2809.6	2932.8	3197.6	3236.2
65°	2554.1	2601.9	2877.7	3129.6	3113.0	2907.1	2945.7	3022.9	3164.5	3552.5	3589.3
67.5°	2210.2	2263.5	2756.3	3225.2	3258.3	3078.1	3118.6	3230.7	3387.0	3821.0	3769.5
70°	2035.5	2079.6	2462.1	3278.5	3379.7	3269.3	3287.7	3392.5	3438.5	3596.6	3541.5
72.5°	1542.7	1588.7	2083.3	3096.5	3484.5	3469.8	3423.8	3337.4	3065.2	2829.9	2695.6
75°	682.2	735.5	1386.4	2419.8	3225.2	3583.8	3341.0	2857.4	2201.0	1607.1	1489.4
77.5°	301.6	332.8	536.9	1344.1	2423.5	3102.0	2642.3	1905.0	1105.1	597.6	555.3
80°	97.5	101.1	169.2	470.7	1239.3	2053.9	1618.1	915.7	340.2	139.7	130.6
82.5°	38.6	42.3	80.9	198.6	513.0	816.4	794.3	331.0	99.3	36.8	36.8
85°	11.0	12.9	40.5	104.8	182.0	229.8	281.3	110.3	53.3	11.0	11.0
87.5°	3.7	3.7	14.7	33.1	34.9	23.9	53.3	42.3	33.1	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°	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5
2.5°	674.8	671.2	662.0	654.6	650.9	645.4	638.1	634.4	634.4	632.5	627.0
5°	662.0	656.4	639.9	628.9	619.7	599.4	584.7	566.3	548.0	542.4	548.0
7.5°	656.4	645.4	623.3	601.3	562.7	509.3	474.4	435.8	422.9	406.4	408.2
10°	658.3	645.4	614.1	564.5	489.1	410.0	354.9	303.4	277.7	264.8	266.6
12.5°	663.8	649.1	605.0	514.9	406.4	310.8	226.2	185.7	178.4	178.4	178.4
15°	674.8	652.8	590.2	456.0	318.1	205.9	160.0	156.3	161.8	167.3	169.2
17.5°	685.9	663.8	568.2	395.3	231.7	154.5	148.9	148.9	154.5	160.0	161.8
20°	698.7	674.8	536.9	331.0	165.5	145.3	143.4	141.6	145.3	150.8	152.6
22.5°	719.0	685.9	500.1	255.6	143.4	139.7	136.1	134.2	136.1	141.6	143.4
25°	737.3	700.6	461.5	189.4	134.2	130.6	128.7	126.9	126.9	130.6	132.4
27.5°	759.4	717.1	419.2	141.6	123.2	121.4	119.5	117.7	115.8	119.5	121.4
30°	787.0	731.8	373.3	119.5	112.2	110.3	108.5	106.6	104.8	106.6	108.5
32.5°	821.9	752.1	319.9	108.5	103.0	97.5	95.6	95.6	93.8	93.8	95.6
35°	867.9	774.1	262.9	101.1	93.8	88.3	82.7	80.9	80.9	80.9	82.7
37.5°	935.9	814.6	207.8	93.8	86.4	77.2	71.7	66.2	66.2	66.2	66.2
40°	1029.7	858.7	161.8	88.3	80.9	68.0	60.7	53.3	49.6	47.8	49.6
42.5°	1175.0	924.9	125.0	80.9	77.2	60.7	49.6	40.5	33.1	31.3	33.1
45°	1334.9	996.6	99.3	75.4	69.9	51.5	38.6	27.6	20.2	18.4	20.2
47.5°	1537.2	1086.7	84.6	68.0	60.7	42.3	27.6	14.7	9.2	11.0	11.0
50°	1732.1	1175.0	77.2	62.5	53.3	34.9	16.5	7.4	3.7	5.5	5.5
52.5°	1947.3	1268.8	71.7	55.2	46.0	25.7	9.2	1.8	0.0	1.8	1.8
55°	2164.2	1353.3	66.2	49.6	36.8	18.4	3.7	0.0	0.0	0.0	1.8
57.5°	2399.6	1425.0	60.7	42.3	27.6	11.0	1.8	0.0	0.0	0.0	0.0
60°	2596.3	1480.2	55.2	36.8	18.4	5.5	0.0	0.0	0.0	0.0	0.0
62.5°	2776.5	1529.9	42.3	27.6	11.0	3.7	0.0	0.0	0.0	0.0	0.0
65°	2896.1	1540.9	29.4	18.4	7.4	1.8	0.0	0.0	0.0	0.0	0.0
67.5°	2842.7	1445.3	18.4	12.9	3.7	1.8	0.0	0.0	0.0	0.0	0.0
70°	2498.9	1213.6	12.9	7.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	1748.7	783.3	11.0	5.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0
75°	923.1	283.2	7.4	3.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	327.3	62.5	3.7	1.8	0.0	1.8	0.0	0.0	0.0	0.0	0.0
80°	71.7	12.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.2	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)