

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: P595115

Luminaire Tested: **IST-PA1C-727-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595115  
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-PA1C-727-U-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 615mA 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: 4018 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G2

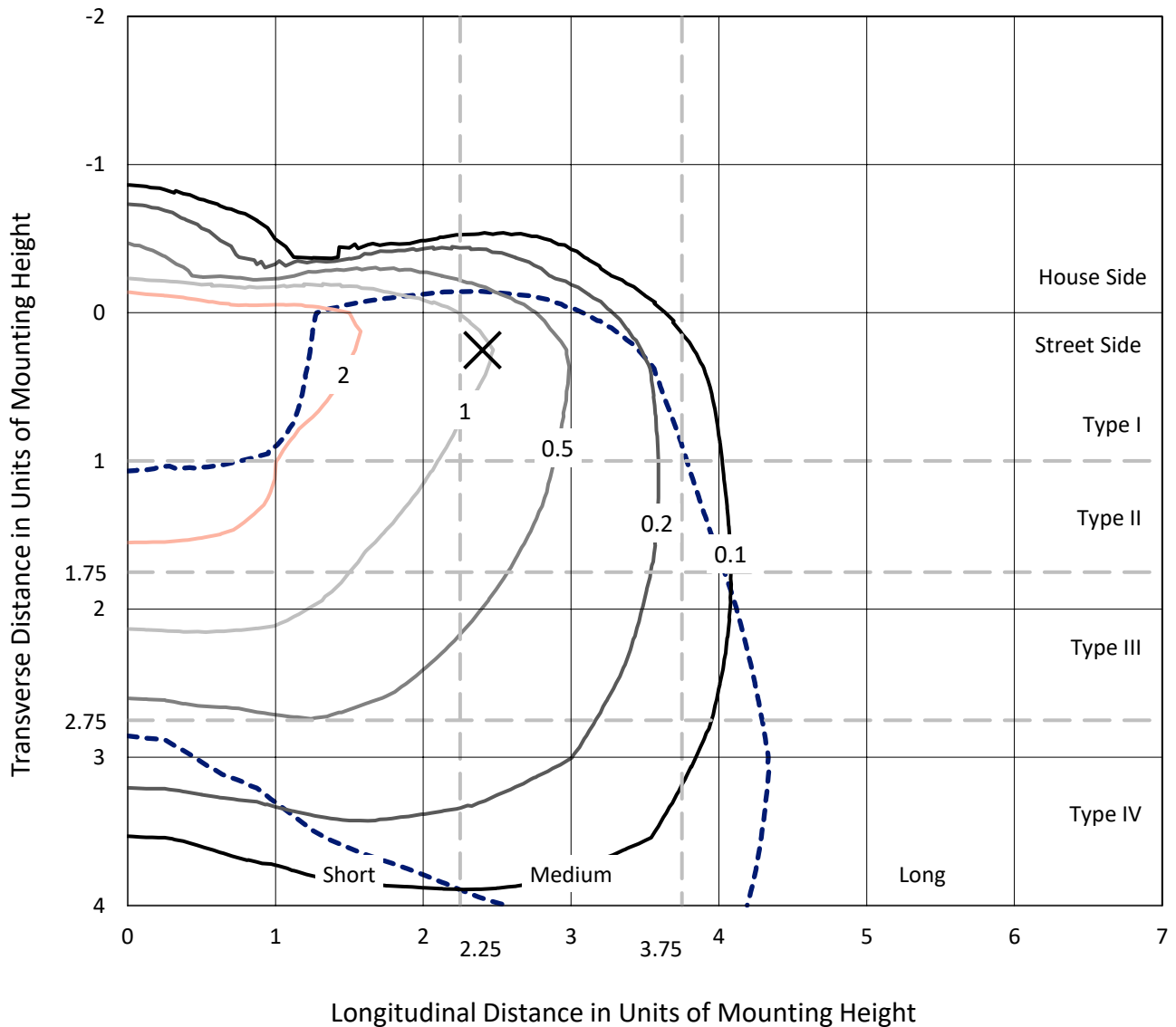
Input Watts (W): 48.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

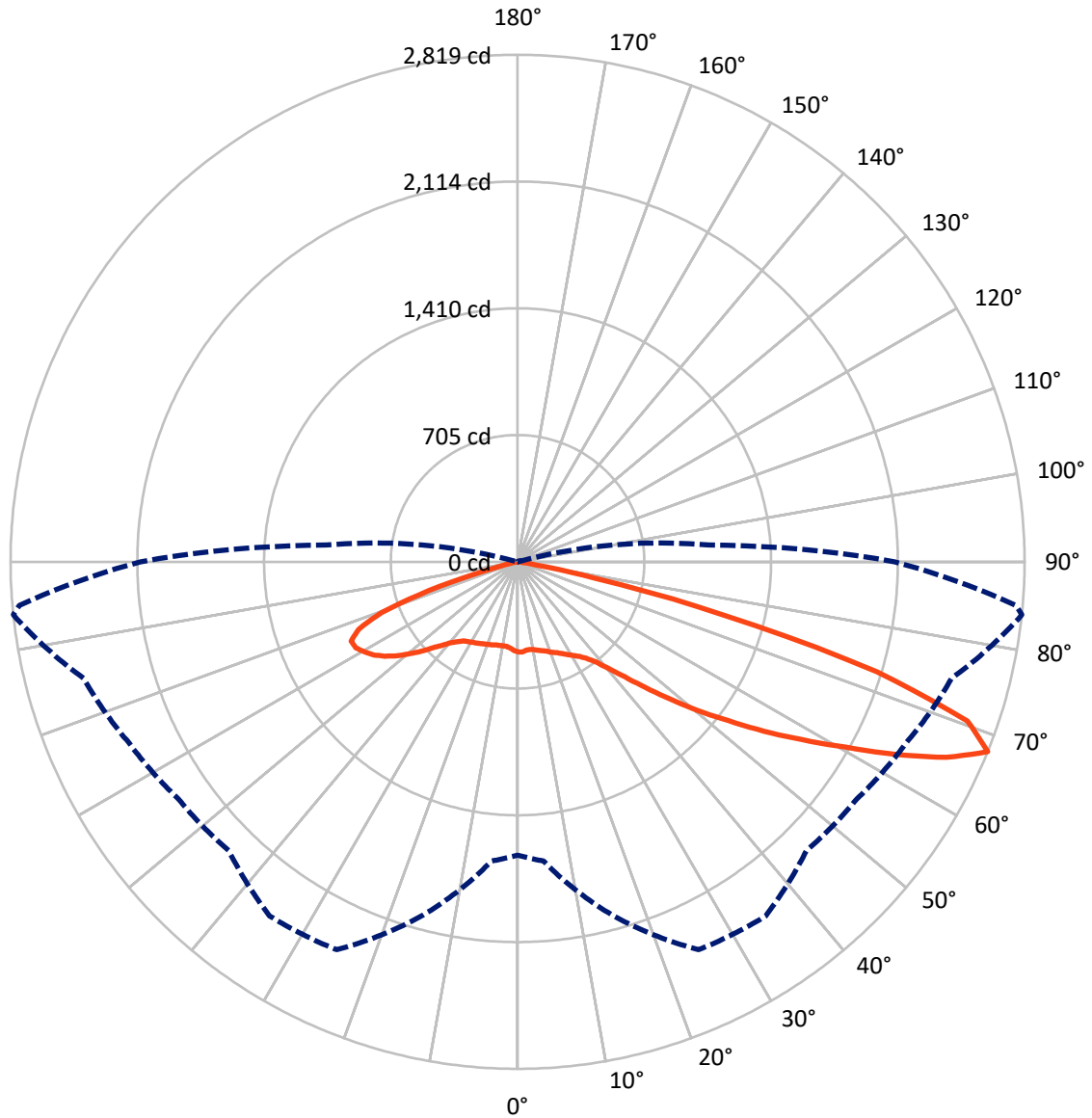
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.1 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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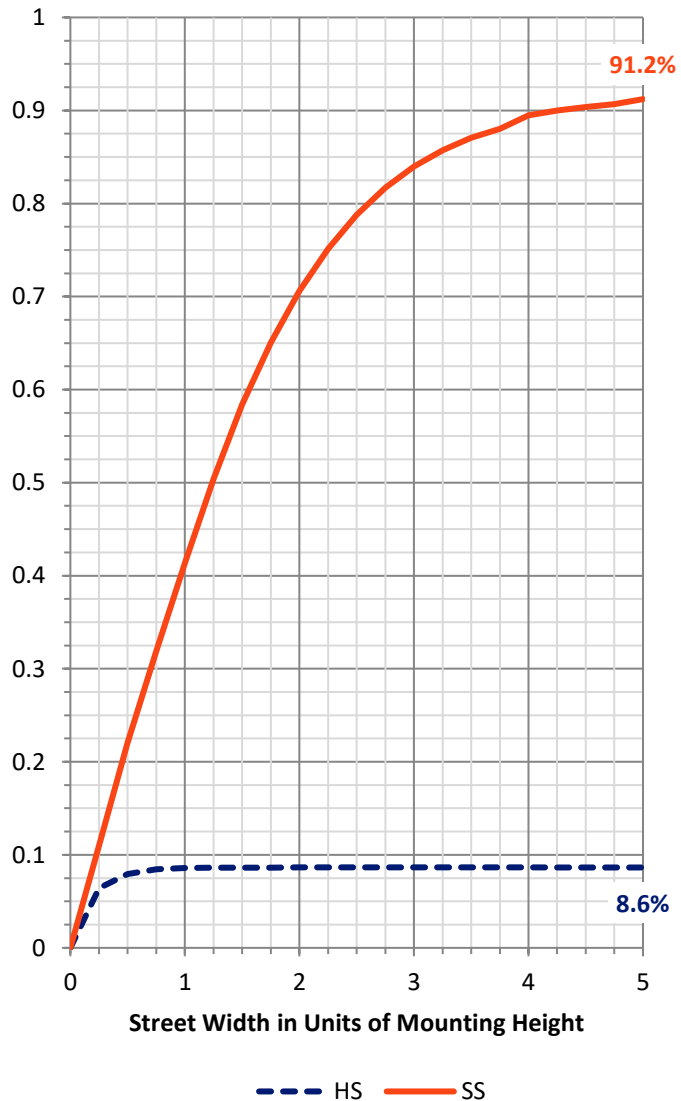
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	349.8	0.0	349.8
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	3668.2	0.0	3668.2
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	4018.0	0.0	4018.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.9	1.1
10°-20°	117.4	2.9
20°-30°	188.0	4.7
30°-40°	270.6	6.7
40°-50°	464.4	11.6
50°-60°	811.5	20.2
60°-70°	1162.1	28.9
70°-80°	873.4	21.7
80°-90°	85.7	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°	4018.0	100.0
0°-180°	4018.0	100.0

**Coefficient of Utilization**

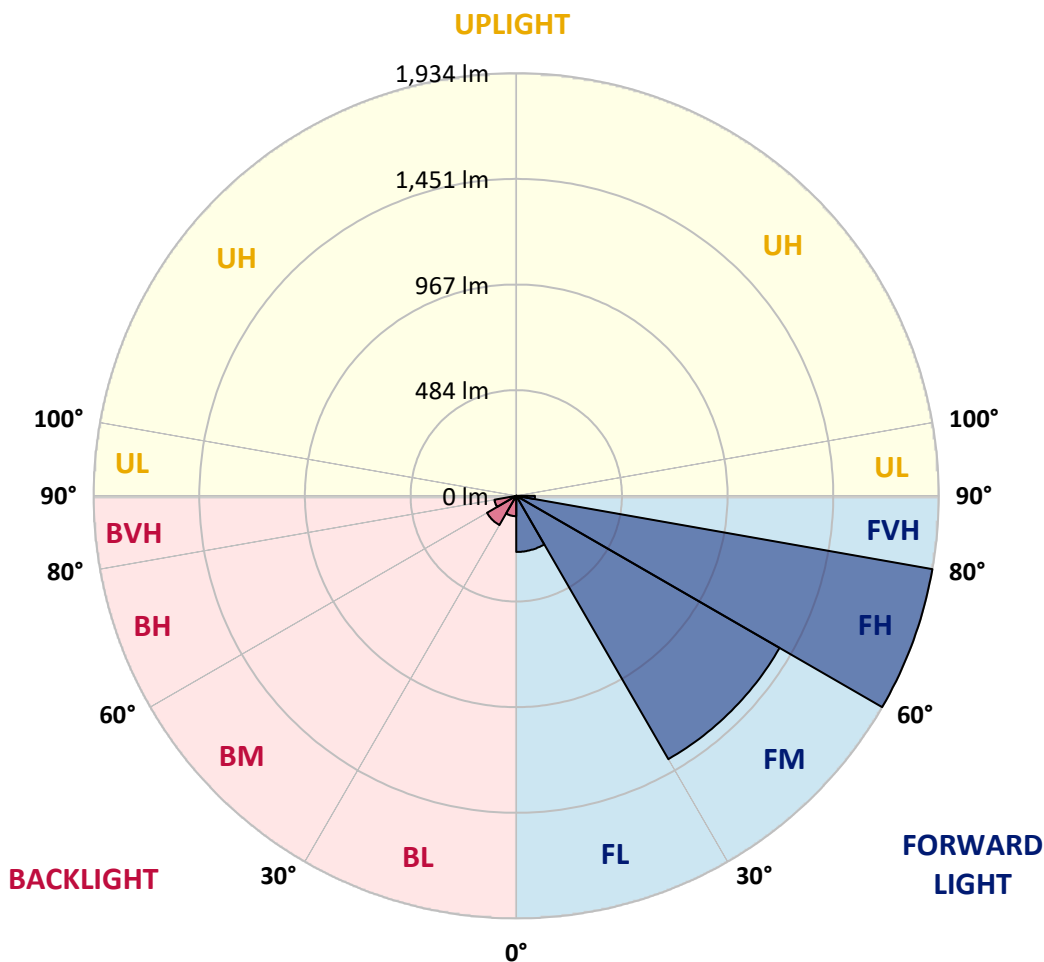


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.9	6.4			
FM (30°-60°)	1391.8	34.6			
FH (60°-80°)	1934.0	48.1			G2/5000
FVH (80°-90°)	85.5	2.1			G1/100
BL (0°-30°)	93.4	2.3	B0/110		
BM (30°-60°)	154.7	3.9	B0/220		
BH (60°-80°)	101.4	2.5	B0/110		G0/110
BVH (80°-90°)	0.3	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6
2.5°	529.1	531.8	533.2	526.4	526.4	520.9	512.8	510.1	506.0	502.0	500.6
5°	556.2	560.3	558.9	550.8	546.7	535.9	525.0	514.2	503.3	493.8	493.8
7.5°	587.4	588.8	584.7	571.1	563.0	548.1	531.8	519.6	506.0	492.5	489.7
10°	614.6	613.2	607.8	594.2	579.3	560.3	542.6	529.1	512.8	496.5	495.2
12.5°	633.5	634.9	628.1	609.1	594.2	572.5	554.9	541.3	522.3	504.7	500.6
15°	649.8	653.9	645.8	626.8	605.1	586.1	572.5	554.9	533.2	512.8	510.1
17.5°	664.7	666.1	659.3	637.6	617.3	601.0	586.1	569.8	548.1	522.3	519.6
20°	672.9	677.0	672.9	645.8	626.8	614.6	602.3	586.1	561.6	537.2	534.5
22.5°	678.3	682.4	681.0	651.2	634.9	625.4	614.6	599.6	576.6	548.1	545.4
25°	681.0	683.7	686.5	656.6	643.0	639.0	629.5	615.9	594.2	564.4	561.6
27.5°	685.1	687.8	690.5	663.4	658.0	653.9	651.2	640.3	614.6	583.3	579.3
30°	691.9	695.9	698.7	675.6	675.6	679.7	679.7	664.7	636.3	603.7	601.0
32.5°	700.0	701.4	706.8	687.8	694.6	704.1	701.4	686.5	656.6	626.8	622.7
35°	721.7	721.7	731.2	706.8	714.9	723.1	725.8	714.9	687.8	658.0	656.6
37.5°	774.6	774.6	782.8	743.4	742.1	750.2	759.7	759.7	732.6	705.4	702.7
40°	894.0	894.0	894.0	803.1	788.2	797.7	812.6	820.8	797.7	778.7	778.7
42.5°	1093.4	1094.8	1074.4	913.0	849.2	865.5	881.8	899.4	887.2	873.7	871.0
45°	1299.6	1292.9	1290.1	1074.4	957.8	949.6	970.0	999.8	1003.9	995.8	1001.2
47.5°	1440.7	1447.5	1451.6	1275.2	1109.7	1054.1	1073.1	1115.1	1139.6	1138.2	1146.3
50°	1577.8	1581.8	1585.9	1496.4	1310.5	1185.7	1197.9	1254.9	1288.8	1299.6	1305.1
52.5°	1697.1	1686.3	1703.9	1691.7	1523.5	1336.3	1336.3	1401.4	1462.4	1466.5	1465.2
55°	1732.4	1739.2	1792.1	1828.7	1741.9	1520.8	1493.6	1562.8	1627.9	1661.9	1661.9
57.5°	1811.1	1817.9	1881.6	1964.4	1900.6	1702.6	1661.9	1729.7	1800.2	1865.4	1874.9
60°	1914.2	1915.6	1983.4	2109.6	2021.4	1866.7	1832.8	1910.1	1980.7	2091.9	2123.1
62.5°	1969.8	1975.2	2068.9	2234.4	2173.3	2010.5	2002.4	2072.9	2163.8	2359.2	2387.7
65°	1884.4	1919.6	2123.1	2309.0	2296.8	2144.8	2173.3	2230.3	2334.8	2621.0	2648.1
67.5°	1630.7	1670.0	2033.6	2379.5	2403.9	2271.0	2300.8	2383.6	2498.9	2819.1	2781.1
70°	1501.8	1534.3	1816.5	2418.9	2493.5	2412.1	2425.6	2503.0	2536.9	2653.6	2612.9
72.5°	1138.2	1172.1	1537.1	2284.6	2570.8	2560.0	2526.0	2462.3	2261.5	2087.8	1988.8
75°	503.3	542.6	1022.9	1785.3	2379.5	2644.1	2465.0	2108.2	1623.9	1185.7	1098.9
77.5°	222.5	245.5	396.1	991.7	1788.0	2288.6	1949.5	1405.5	815.3	440.9	409.7
80°	71.9	74.6	124.8	347.3	914.4	1515.3	1193.8	675.6	251.0	103.1	96.3
82.5°	28.5	31.2	59.7	146.5	378.5	602.3	586.1	244.2	73.3	27.1	27.1
85°	8.1	9.5	29.8	77.3	134.3	169.6	207.6	81.4	39.3	8.1	8.1
87.5°	2.7	2.7	10.9	24.4	25.8	17.6	39.3	31.2	24.4	2.7	2.7
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°	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6
2.5°	497.9	495.2	488.4	483.0	480.2	476.2	470.7	468.0	468.0	466.7	462.6
5°	488.4	484.3	472.1	464.0	457.2	442.3	431.4	417.8	404.3	400.2	404.3
7.5°	484.3	476.2	459.9	443.6	415.1	375.8	350.0	321.5	312.0	299.8	301.2
10°	485.7	476.2	453.1	416.5	360.9	302.5	261.8	223.8	204.9	195.4	196.7
12.5°	489.7	478.9	446.3	379.9	299.8	229.3	166.9	137.0	131.6	131.6	131.6
15°	497.9	481.6	435.5	336.4	234.7	151.9	118.0	115.3	119.4	123.5	124.8
17.5°	506.0	489.7	419.2	291.7	170.9	114.0	109.9	109.9	114.0	118.0	119.4
20°	515.5	497.9	396.1	244.2	122.1	107.2	105.8	104.5	107.2	111.2	112.6
22.5°	530.4	506.0	369.0	188.6	105.8	103.1	100.4	99.0	100.4	104.5	105.8
25°	544.0	516.9	340.5	139.7	99.0	96.3	95.0	93.6	93.6	96.3	97.7
27.5°	560.3	529.1	309.3	104.5	90.9	89.5	88.2	86.8	85.5	88.2	89.5
30°	580.6	539.9	275.4	88.2	82.8	81.4	80.0	78.7	77.3	78.7	80.0
32.5°	606.4	554.9	236.1	80.0	76.0	71.9	70.5	70.5	69.2	69.2	70.5
35°	640.3	571.1	194.0	74.6	69.2	65.1	61.0	59.7	59.7	59.7	61.0
37.5°	690.5	601.0	153.3	69.2	63.8	57.0	52.9	48.8	48.8	48.8	48.8
40°	759.7	633.5	119.4	65.1	59.7	50.2	44.8	39.3	36.6	35.3	36.6
42.5°	866.9	682.4	92.3	59.7	57.0	44.8	36.6	29.8	24.4	23.1	24.4
45°	984.9	735.3	73.3	55.6	51.6	38.0	28.5	20.3	14.9	13.6	14.9
47.5°	1134.1	801.8	62.4	50.2	44.8	31.2	20.3	10.9	6.8	8.1	8.1
50°	1277.9	866.9	57.0	46.1	39.3	25.8	12.2	5.4	2.7	4.1	4.1
52.5°	1436.7	936.1	52.9	40.7	33.9	19.0	6.8	1.4	0.0	1.4	1.4
55°	1596.7	998.5	48.8	36.6	27.1	13.6	2.7	0.0	0.0	0.0	1.4
57.5°	1770.4	1051.4	44.8	31.2	20.3	8.1	1.4	0.0	0.0	0.0	0.0
60°	1915.6	1092.1	40.7	27.1	13.6	4.1	0.0	0.0	0.0	0.0	0.0
62.5°	2048.5	1128.7	31.2	20.3	8.1	2.7	0.0	0.0	0.0	0.0	0.0
65°	2136.7	1136.9	21.7	13.6	5.4	1.4	0.0	0.0	0.0	0.0	0.0
67.5°	2097.3	1066.3	13.6	9.5	2.7	1.4	0.0	0.0	0.0	0.0	0.0
70°	1843.7	895.4	9.5	5.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
72.5°	1290.1	577.9	8.1	4.1	1.4	1.4	0.0	0.0	0.0	0.0	0.0
75°	681.0	208.9	5.4	2.7	1.4	1.4	0.0	0.0	0.0	0.0	0.0
77.5°	241.5	46.1	2.7	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0
80°	52.9	9.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	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)