

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: P595070

Luminaire Tested: **IST-PA1B-750-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595070  
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-PA1B-750-U-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 5000K, 450mA 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: 3716 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

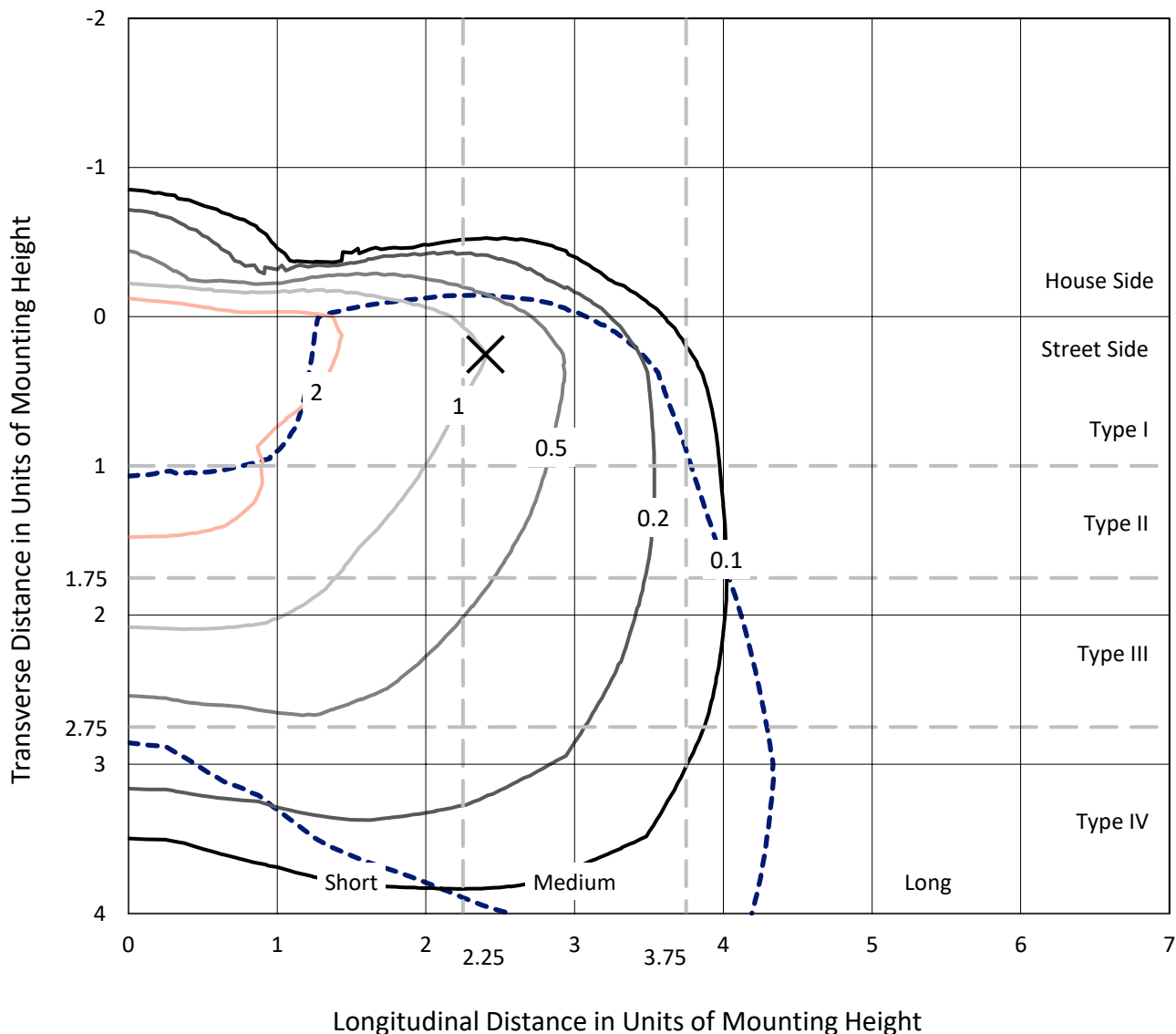
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

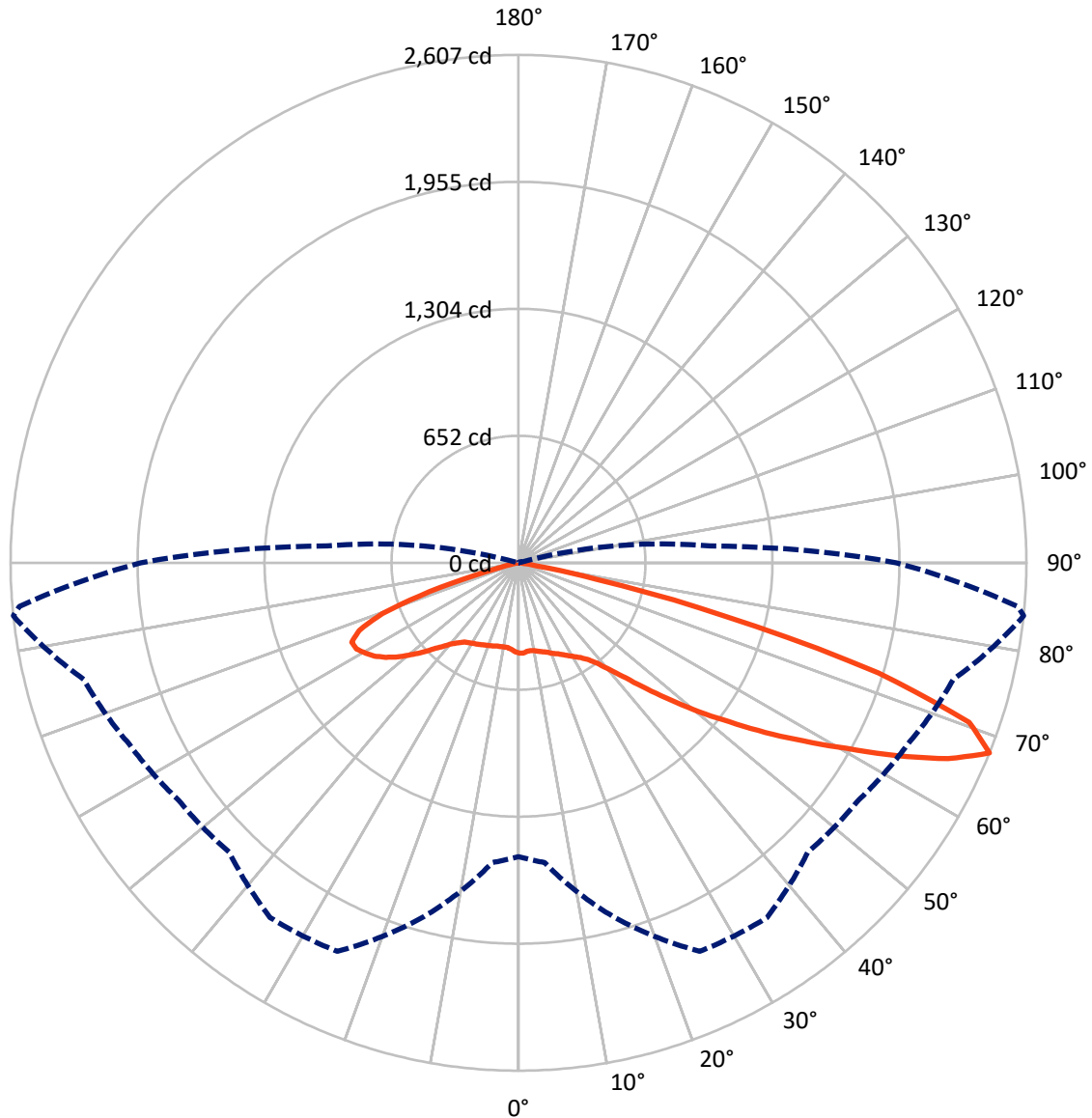
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.8 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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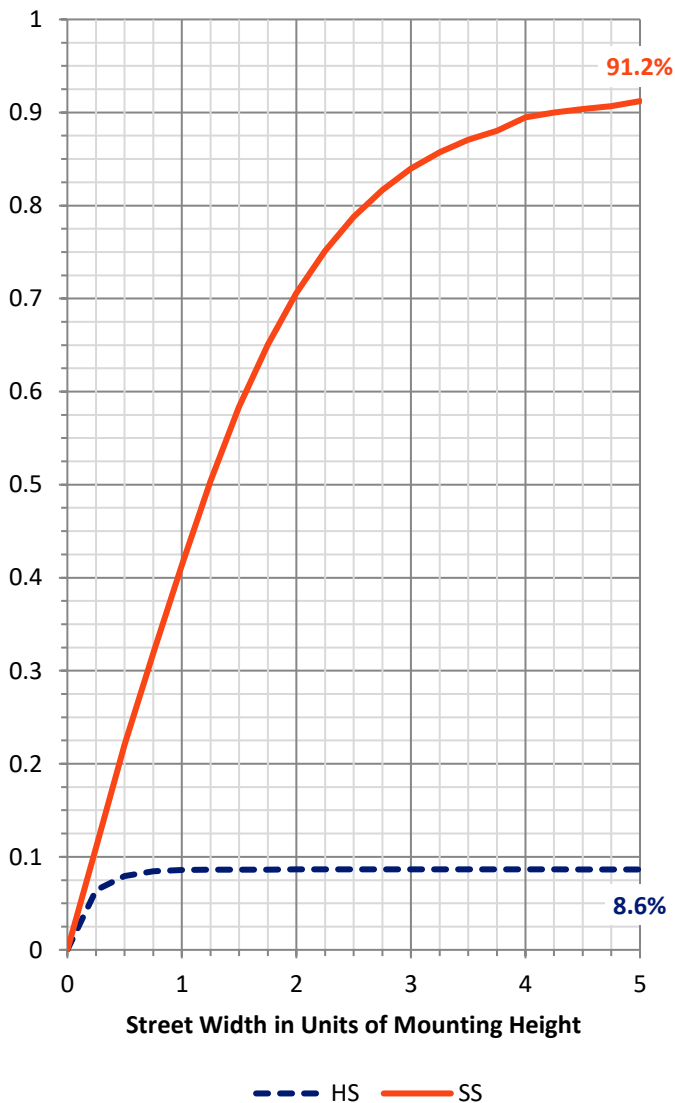
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	323.5	0.0	323.5
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	3392.5	0.0	3392.5
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	3716.0	0.0	3716.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.5	1.1
10°-20°	108.6	2.9
20°-30°	173.9	4.7
30°-40°	250.3	6.7
40°-50°	429.5	11.6
50°-60°	750.5	20.2
60°-70°	1074.7	28.9
70°-80°	807.8	21.7
80°-90°	79.3	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°	3716.0	100.0
0°-180°	3716.0	100.0

**Coefficient of Utilization**

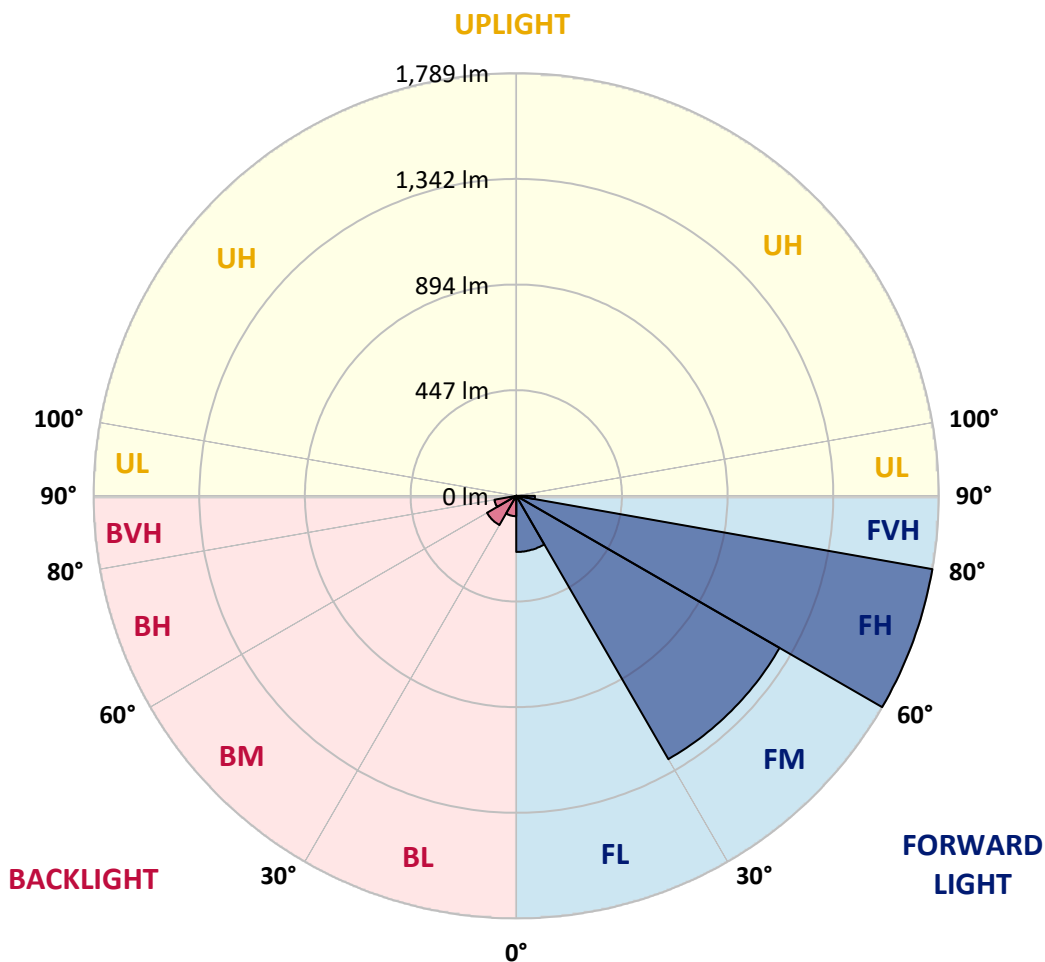


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	237.6	6.4			
FM (30°-60°)	1287.2	34.6			
FH (60°-80°)	1788.7	48.1			G1/1800
FVH (80°-90°)	79.0	2.1			G1/100
BL (0°-30°)	86.4	2.3	B0/110		
BM (30°-60°)	143.1	3.9	B0/220		
BH (60°-80°)	93.8	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-G1**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	463.0	463.0	463.0	463.0	463.0	463.0	463.0	463.0	463.0	463.0	463.0
2.5°	489.3	491.8	493.1	486.8	486.8	481.8	474.3	471.8	468.0	464.2	463.0
5°	514.4	518.2	516.9	509.4	505.6	495.6	485.6	475.5	465.5	456.7	456.7
7.5°	543.3	544.5	540.8	528.2	520.7	506.9	491.8	480.5	468.0	455.4	452.9
10°	568.4	567.1	562.1	549.5	535.7	518.2	501.9	489.3	474.3	459.2	458.0
12.5°	585.9	587.2	580.9	563.3	549.5	529.5	513.2	500.6	483.0	466.7	463.0
15°	601.0	604.7	597.2	579.7	559.6	542.0	529.5	513.2	493.1	474.3	471.8
17.5°	614.8	616.0	609.8	589.7	570.9	555.8	542.0	527.0	506.9	483.0	480.5
20°	622.3	626.1	622.3	597.2	579.7	568.4	557.1	542.0	519.4	496.8	494.3
22.5°	627.3	631.1	629.8	602.2	587.2	578.4	568.4	554.6	533.2	506.9	504.4
25°	629.8	632.3	634.9	607.3	594.7	590.9	582.2	569.6	549.5	521.9	519.4
27.5°	633.6	636.1	638.6	613.5	608.5	604.7	602.2	592.2	568.4	539.5	535.7
30°	639.9	643.6	646.1	624.8	624.8	628.6	628.6	614.8	588.4	558.3	555.8
32.5°	647.4	648.7	653.7	636.1	642.4	651.2	648.7	634.9	607.3	579.7	575.9
35°	667.5	667.5	676.3	653.7	661.2	668.7	671.2	661.2	636.1	608.5	607.3
37.5°	716.4	716.4	723.9	687.6	686.3	693.8	702.6	702.6	677.5	652.4	649.9
40°	826.8	826.8	826.8	742.8	729.0	737.7	751.5	759.1	737.7	720.2	720.2
42.5°	1011.3	1012.5	993.7	844.4	785.4	800.5	815.5	831.8	820.5	808.0	805.5
45°	1202.0	1195.7	1193.2	993.7	885.8	878.3	897.1	924.7	928.4	920.9	925.9
47.5°	1332.4	1338.7	1342.5	1179.4	1026.3	974.9	992.4	1031.3	1053.9	1052.7	1060.2
50°	1459.2	1462.9	1466.7	1383.9	1212.0	1096.6	1107.9	1160.6	1191.9	1202.0	1207.0
52.5°	1569.6	1559.5	1575.9	1564.6	1409.0	1235.8	1235.8	1296.1	1352.5	1356.3	1355.0
55°	1602.2	1608.5	1657.4	1691.3	1611.0	1406.5	1381.4	1445.4	1505.6	1537.0	1537.0
57.5°	1675.0	1681.2	1740.2	1816.7	1757.8	1574.6	1537.0	1599.7	1664.9	1725.2	1733.9
60°	1770.3	1771.6	1834.3	1951.0	1869.4	1726.4	1695.0	1766.6	1831.8	1934.7	1963.5
62.5°	1821.8	1826.8	1913.4	2066.4	2010.0	1859.4	1851.9	1917.1	2001.2	2181.9	2208.2
65°	1742.7	1775.3	1963.5	2135.4	2124.1	1983.6	2010.0	2062.7	2159.3	2424.0	2449.1
67.5°	1508.1	1544.5	1880.7	2200.7	2223.3	2100.3	2127.9	2204.4	2311.1	2607.2	2572.0
70°	1388.9	1419.0	1680.0	2237.1	2306.1	2230.8	2243.3	2314.8	2346.2	2454.1	2416.5
72.5°	1052.7	1084.0	1421.5	2112.8	2377.6	2367.5	2336.2	2277.2	2091.5	1930.9	1839.3
75°	465.5	501.9	946.0	1651.1	2200.7	2445.3	2279.7	1949.7	1501.8	1096.6	1016.3
77.5°	205.8	227.1	366.4	917.2	1653.6	2116.6	1802.9	1299.8	754.0	407.8	378.9
80°	66.5	69.0	115.4	321.2	845.6	1401.5	1104.1	624.8	232.1	95.4	89.1
82.5°	26.3	28.9	55.2	135.5	350.0	557.1	542.0	225.8	67.8	25.1	25.1
85°	7.5	8.8	27.6	71.5	124.2	156.8	192.0	75.3	36.4	7.5	7.5
87.5°	2.5	2.5	10.0	22.6	23.8	16.3	36.4	28.9	22.6	2.5	2.5
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°	463.0	463.0	463.0	463.0	463.0	463.0	463.0	463.0	463.0	463.0	463.0
2.5°	460.5	458.0	451.7	446.7	444.1	440.4	435.4	432.9	432.9	431.6	427.8
5°	451.7	447.9	436.6	429.1	422.8	409.0	399.0	386.4	373.9	370.1	373.9
7.5°	447.9	440.4	425.3	410.3	383.9	347.5	323.7	297.4	288.6	277.3	278.5
10°	449.2	440.4	419.1	385.2	333.7	279.8	242.1	207.0	189.5	180.7	181.9
12.5°	452.9	442.9	412.8	351.3	277.3	212.0	154.3	126.7	121.7	121.7	121.7
15°	460.5	445.4	402.7	311.2	217.1	140.5	109.2	106.6	110.4	114.2	115.4
17.5°	468.0	452.9	387.7	269.8	158.1	105.4	101.6	101.6	105.4	109.2	110.4
20°	476.8	460.5	366.4	225.8	112.9	99.1	97.9	96.6	99.1	102.9	104.1
22.5°	490.6	468.0	341.3	174.4	97.9	95.4	92.8	91.6	92.8	96.6	97.9
25°	503.1	478.0	314.9	129.2	91.6	89.1	87.8	86.6	86.6	89.1	90.3
27.5°	518.2	489.3	286.1	96.6	84.1	82.8	81.6	80.3	79.0	81.6	82.8
30°	537.0	499.4	254.7	81.6	76.5	75.3	74.0	72.8	71.5	72.8	74.0
32.5°	560.8	513.2	218.3	74.0	70.3	66.5	65.2	65.2	64.0	64.0	65.2
35°	592.2	528.2	179.4	69.0	64.0	60.2	56.5	55.2	55.2	55.2	56.5
37.5°	638.6	555.8	141.8	64.0	59.0	52.7	48.9	45.2	45.2	45.2	45.2
40°	702.6	585.9	110.4	60.2	55.2	46.4	41.4	36.4	33.9	32.6	33.9
42.5°	801.7	631.1	85.3	55.2	52.7	41.4	33.9	27.6	22.6	21.3	22.6
45°	910.9	680.0	67.8	51.4	47.7	35.1	26.3	18.8	13.8	12.5	13.8
47.5°	1048.9	741.5	57.7	46.4	41.4	28.9	18.8	10.0	6.3	7.5	7.5
50°	1181.9	801.7	52.7	42.7	36.4	23.8	11.3	5.0	2.5	3.8	3.8
52.5°	1328.7	865.7	48.9	37.6	31.4	17.6	6.3	1.3	0.0	1.3	1.3
55°	1476.7	923.4	45.2	33.9	25.1	12.5	2.5	0.0	0.0	0.0	1.3
57.5°	1637.3	972.4	41.4	28.9	18.8	7.5	1.3	0.0	0.0	0.0	0.0
60°	1771.6	1010.0	37.6	25.1	12.5	3.8	0.0	0.0	0.0	0.0	0.0
62.5°	1894.5	1043.9	28.9	18.8	7.5	2.5	0.0	0.0	0.0	0.0	0.0
65°	1976.1	1051.4	20.1	12.5	5.0	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	1939.7	986.2	12.5	8.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
70°	1705.1	828.1	8.8	5.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	1193.2	534.5	7.5	3.8	1.3	1.3	0.0	0.0	0.0	0.0	0.0
75°	629.8	193.2	5.0	2.5	1.3	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	223.3	42.7	2.5	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0
80°	48.9	8.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	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)