

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: P594078

Luminaire Tested: **ISC-PA1B-750-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1B-750-U-T3-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 5000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3972 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

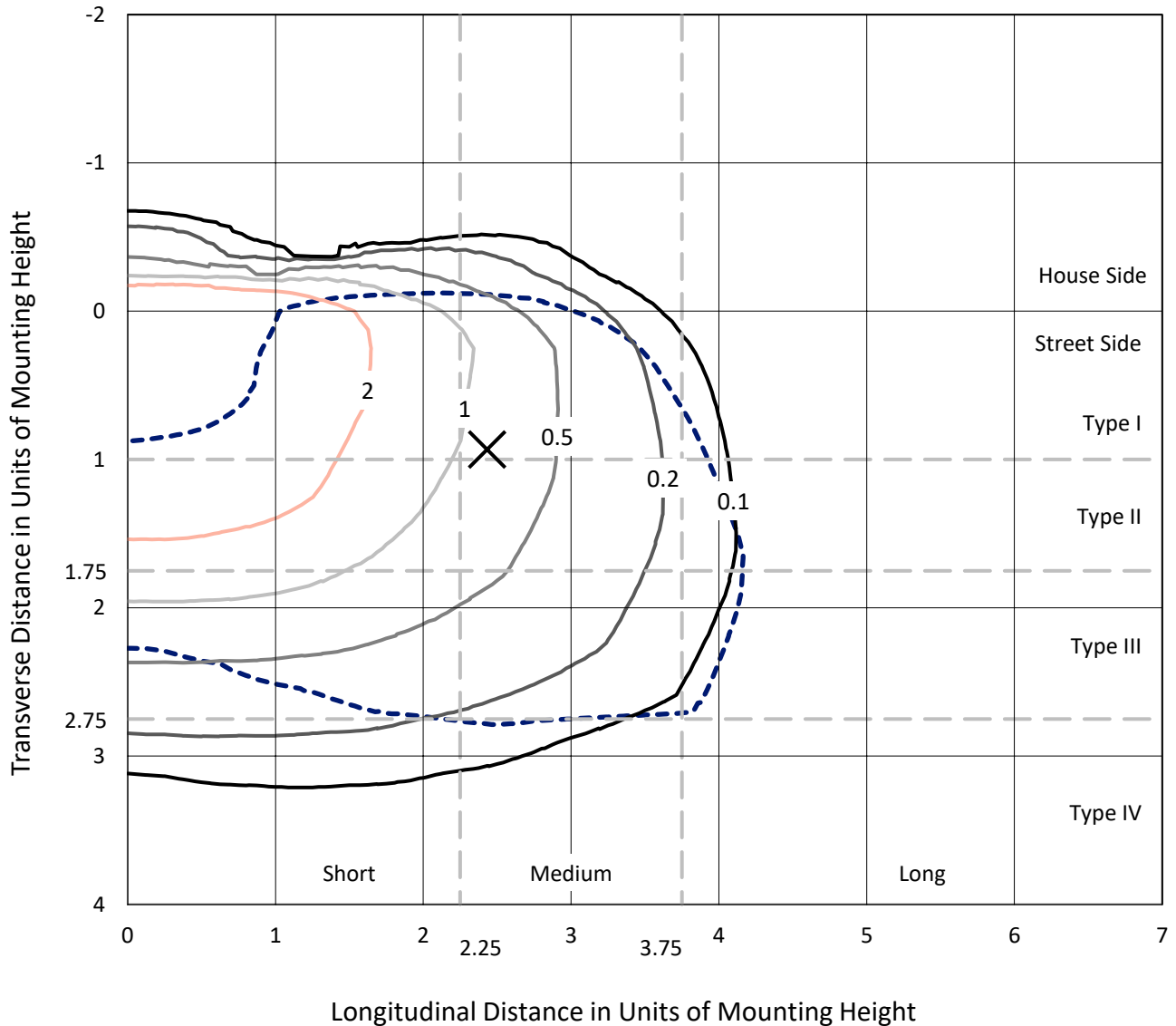
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

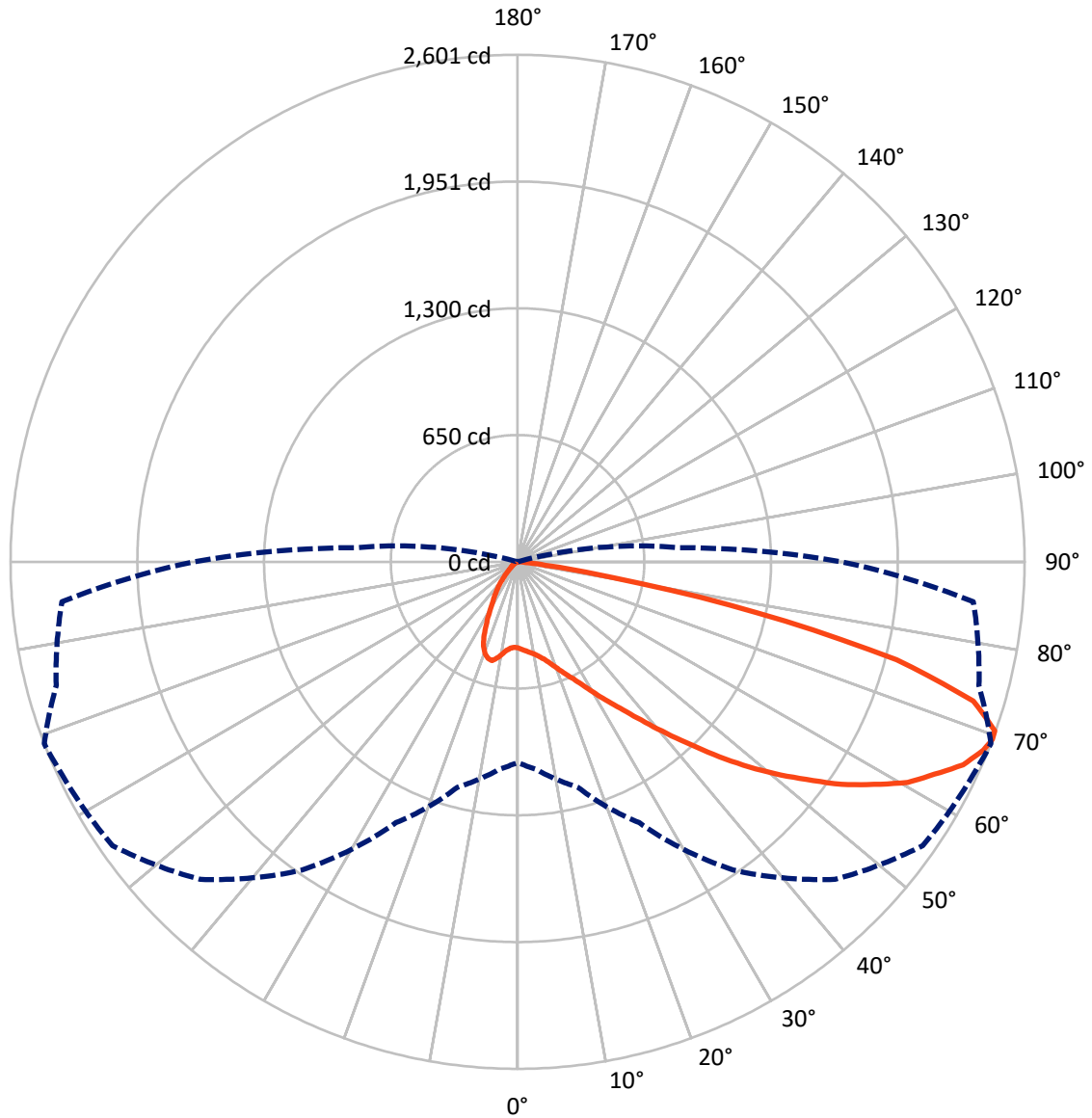
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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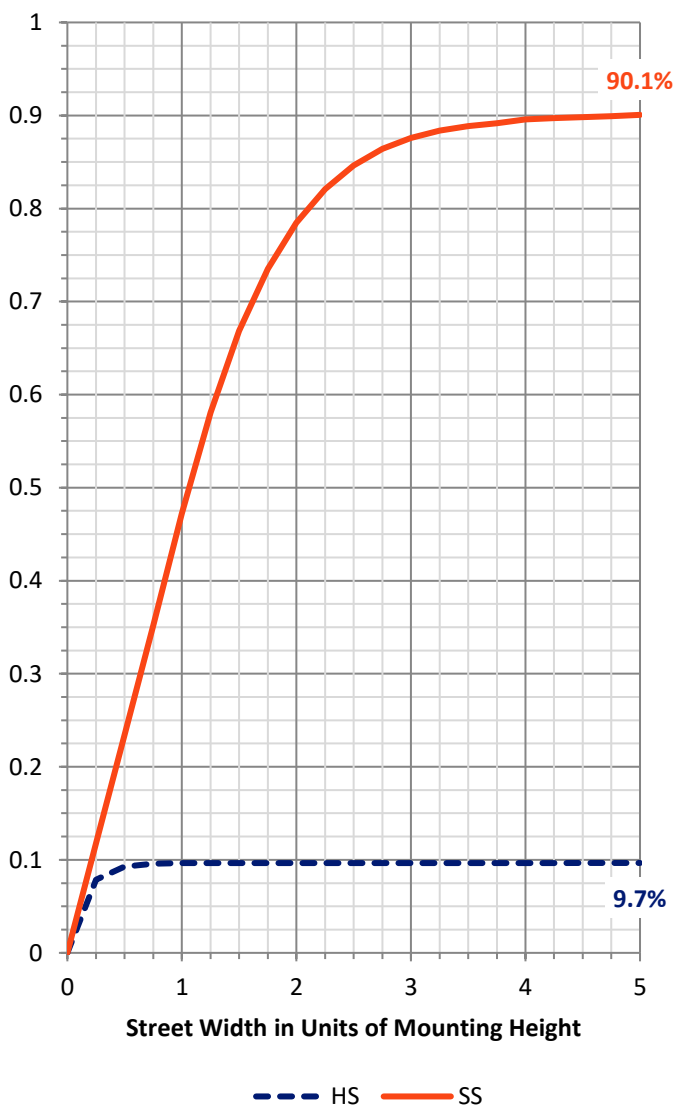
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	387.0	0.0	387.0
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	3585.0	0.0	3585.0
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	3972.0	0.0	3972.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.1	1.1
10°-20°	111.5	2.8
20°-30°	185.6	4.7
30°-40°	334.1	8.4
40°-50°	605.8	15.3
50°-60°	946.7	23.8
60°-70°	1095.4	27.6
70°-80°	612.6	15.4
80°-90°	38.2	1.0
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°	3972.0	100.0
0°-180°	3972.0	100.0

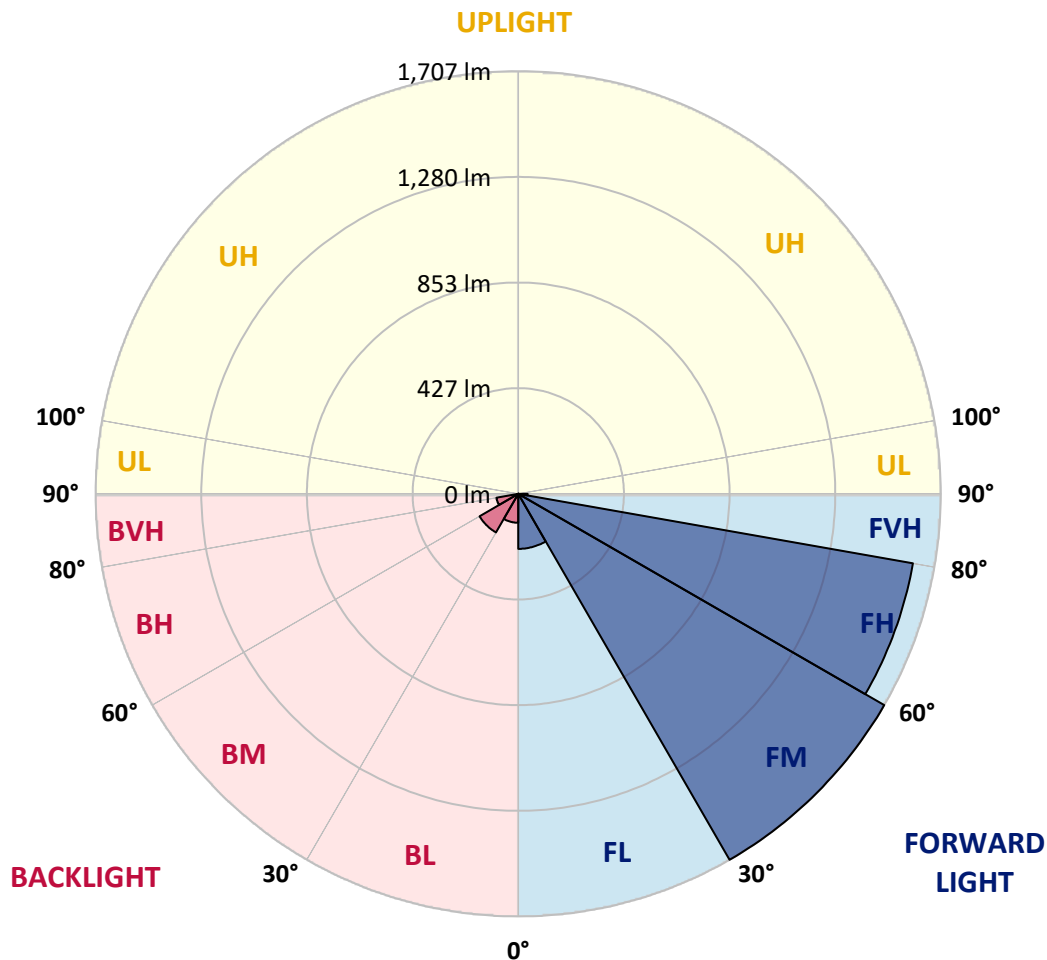


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.2	5.6			
FM (30°-60°)	1706.5	43.0			
FH (60°-80°)	1618.3	40.7			G1/1800
FVH (80°-90°)	38.0	1.0			G1/100
BL (0°-30°)	117.0	2.9	B1/500		
BM (30°-60°)	180.2	4.5	B0/220		
BH (60°-80°)	89.6	2.3	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: B1-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8
2.5°	457.7	457.7	457.7	455.0	456.4	455.0	453.7	449.8	451.1	449.8	445.8
5°	441.8	443.1	447.1	449.8	456.4	459.0	460.3	460.3	459.0	456.4	453.7
7.5°	411.4	411.4	415.4	423.3	436.5	451.1	463.0	469.6	470.9	470.9	467.0
10°	403.5	403.5	408.8	414.0	427.3	444.5	463.0	478.9	481.5	484.2	482.8
12.5°	399.5	400.8	406.1	415.4	432.6	448.4	468.3	490.8	498.7	505.3	506.6
15°	404.8	404.8	410.1	419.3	439.2	461.7	486.8	511.9	519.9	529.1	535.7
17.5°	412.7	415.4	418.0	427.3	445.8	473.6	506.6	539.7	549.0	560.9	566.2
20°	425.9	425.9	428.6	436.5	456.4	489.4	535.7	575.4	583.4	591.3	597.9
22.5°	441.8	443.1	443.1	449.8	472.2	508.0	560.9	609.8	623.0	627.0	629.7
25°	489.4	486.8	477.5	473.6	490.8	529.1	591.3	650.8	665.4	669.3	664.1
27.5°	588.7	578.1	552.9	526.5	523.8	562.2	632.3	702.4	718.3	719.6	701.1
30°	713.0	714.3	673.3	616.4	578.1	597.9	677.3	767.2	783.1	776.5	747.4
32.5°	866.4	859.8	829.4	747.4	670.7	653.5	726.2	834.7	853.2	842.6	804.3
35°	997.4	1001.4	964.3	891.6	795.0	739.5	785.8	910.1	932.6	914.1	866.4
37.5°	1107.2	1112.5	1090.0	1030.5	944.5	857.2	863.8	998.7	1029.2	1010.6	951.1
40°	1228.9	1232.9	1223.6	1158.8	1082.1	997.4	968.3	1100.6	1141.6	1116.5	1054.3
42.5°	1362.5	1377.1	1361.2	1309.6	1230.2	1157.5	1113.8	1224.9	1265.9	1250.1	1166.7
45°	1545.1	1546.4	1527.9	1476.3	1394.2	1334.7	1281.8	1357.2	1410.1	1390.3	1292.4
47.5°	1680.0	1689.2	1678.7	1642.9	1576.8	1537.1	1464.4	1502.7	1558.3	1533.1	1422.0
50°	1783.2	1808.3	1799.0	1809.6	1776.5	1759.3	1648.2	1653.5	1707.8	1686.6	1554.3
52.5°	1840.0	1871.8	1874.4	1928.7	1956.4	1998.8	1826.8	1818.9	1853.3	1834.7	1689.2
55°	1832.1	1840.0	1906.2	2005.4	2113.9	2210.4	2001.4	1968.4	2016.0	1964.4	1832.1
57.5°	1755.4	1775.2	1891.6	2014.7	2206.5	2346.7	2152.2	2115.2	2154.9	2086.1	1978.9
60°	1645.6	1674.7	1824.2	2000.1	2260.7	2428.7	2299.1	2262.0	2297.7	2214.4	2145.6
62.5°	1546.4	1559.6	1697.2	1939.3	2228.9	2424.7	2412.8	2378.4	2399.6	2312.3	2288.5
65°	1404.8	1410.1	1546.4	1829.5	2158.8	2398.3	2475.0	2488.2	2510.7	2394.3	2390.3
67.5°	1186.6	1198.5	1333.4	1637.6	2042.4	2346.7	2523.9	2550.4	2576.8	2438.0	2408.9
69°	1029.2	1067.5	1197.1	1476.3	1930.0	2303.0	2537.2	2579.5	2600.7	2449.9	2346.7
70°	900.8	933.9	1083.4	1351.9	1830.8	2254.1	2546.4	2575.5	2596.7	2424.7	2244.8
72.5°	452.4	494.7	699.8	986.8	1455.1	2030.5	2498.8	2467.1	2444.6	2230.3	1816.2
75°	174.6	181.2	300.3	562.2	910.1	1490.8	2133.7	2074.2	2008.0	1691.9	1076.8
77.5°	96.6	95.2	131.0	248.7	387.6	728.9	1443.2	1348.0	1256.7	908.8	436.5
80°	41.0	43.7	56.9	119.1	203.7	252.7	701.1	623.0	496.1	288.4	104.5
82.5°	25.1	26.5	39.7	72.8	141.5	96.6	227.5	194.5	142.9	78.0	25.1
85°	7.9	9.3	27.8	48.9	68.8	39.7	51.6	45.0	39.7	33.1	7.9
87.5°	1.3	1.3	10.6	26.5	18.5	6.6	5.3	9.3	14.6	15.9	2.6
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°	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8	441.8
2.5°	444.5	441.8	439.2	437.9	437.9	435.2	433.9	432.6	432.6	431.2	431.2
5°	449.8	447.1	444.5	443.1	440.5	439.2	439.2	439.2	437.9	439.2	440.5
7.5°	463.0	459.0	457.7	456.4	456.4	452.4	445.8	428.6	411.4	406.1	400.8
10°	481.5	480.2	480.2	480.2	470.9	436.5	388.9	346.6	324.1	305.6	305.6
12.5°	508.0	508.0	506.6	502.7	455.0	371.7	297.6	234.1	197.1	175.9	178.6
15°	537.1	535.7	538.4	513.3	400.8	287.1	179.9	127.0	107.1	104.5	104.5
17.5°	567.5	570.1	567.5	485.5	329.4	177.3	107.1	96.6	93.9	93.9	93.9
20°	599.2	596.6	592.6	437.9	239.4	111.1	92.6	90.0	87.3	86.0	86.0
22.5°	631.0	628.3	601.9	377.0	149.5	91.3	87.3	82.0	78.0	76.7	76.7
25°	661.4	661.4	584.7	299.0	101.9	86.0	79.4	74.1	70.1	66.1	66.1
27.5°	699.8	702.4	556.9	209.0	86.0	79.4	71.4	63.5	58.2	55.6	55.6
30°	743.4	747.4	511.9	136.3	78.0	70.1	62.2	52.9	45.0	42.3	41.0
32.5°	795.0	799.0	460.3	90.0	70.1	60.8	51.6	39.7	31.7	30.4	29.1
35°	861.2	851.9	398.2	71.4	60.8	51.6	39.7	27.8	22.5	21.2	21.2
37.5°	943.2	923.3	326.7	62.2	51.6	41.0	29.1	18.5	14.6	14.6	13.2
40°	1037.1	981.5	252.7	55.6	43.7	31.7	18.5	11.9	9.3	9.3	9.3
42.5°	1140.3	1030.5	179.9	48.9	35.7	22.5	11.9	6.6	5.3	5.3	5.3
45°	1259.3	1075.5	123.0	42.3	30.4	15.9	6.6	2.6	2.6	2.6	2.6
47.5°	1378.4	1104.6	82.0	37.0	22.5	9.3	4.0	1.3	1.3	1.3	1.3
50°	1498.8	1127.0	63.5	31.7	15.9	5.3	1.3	0.0	0.0	0.0	0.0
52.5°	1605.9	1142.9	51.6	26.5	10.6	4.0	1.3	0.0	0.0	0.0	0.0
55°	1698.5	1144.2	45.0	21.2	7.9	2.6	0.0	0.0	0.0	0.0	0.0
57.5°	1792.4	1133.7	38.4	15.9	5.3	1.3	0.0	0.0	0.0	0.0	0.0
60°	1849.3	1105.9	30.4	11.9	4.0	1.3	0.0	0.0	0.0	0.0	0.0
62.5°	1883.7	1059.6	23.8	7.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
65°	1863.8	1001.4	17.2	5.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	1771.3	911.4	11.9	4.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0
69°	1661.5	829.4	10.6	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0
70°	1564.9	765.9	9.3	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	1165.4	493.4	7.9	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0
75°	654.8	165.4	5.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	246.0	42.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	54.2	10.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	1.3	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)