

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: INVUE

Report Number: P401119

Luminaire Tested: **ENV-SA1B-735-U-T3-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1B-735-U-T3-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2474 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 25.4  
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: 25 FT

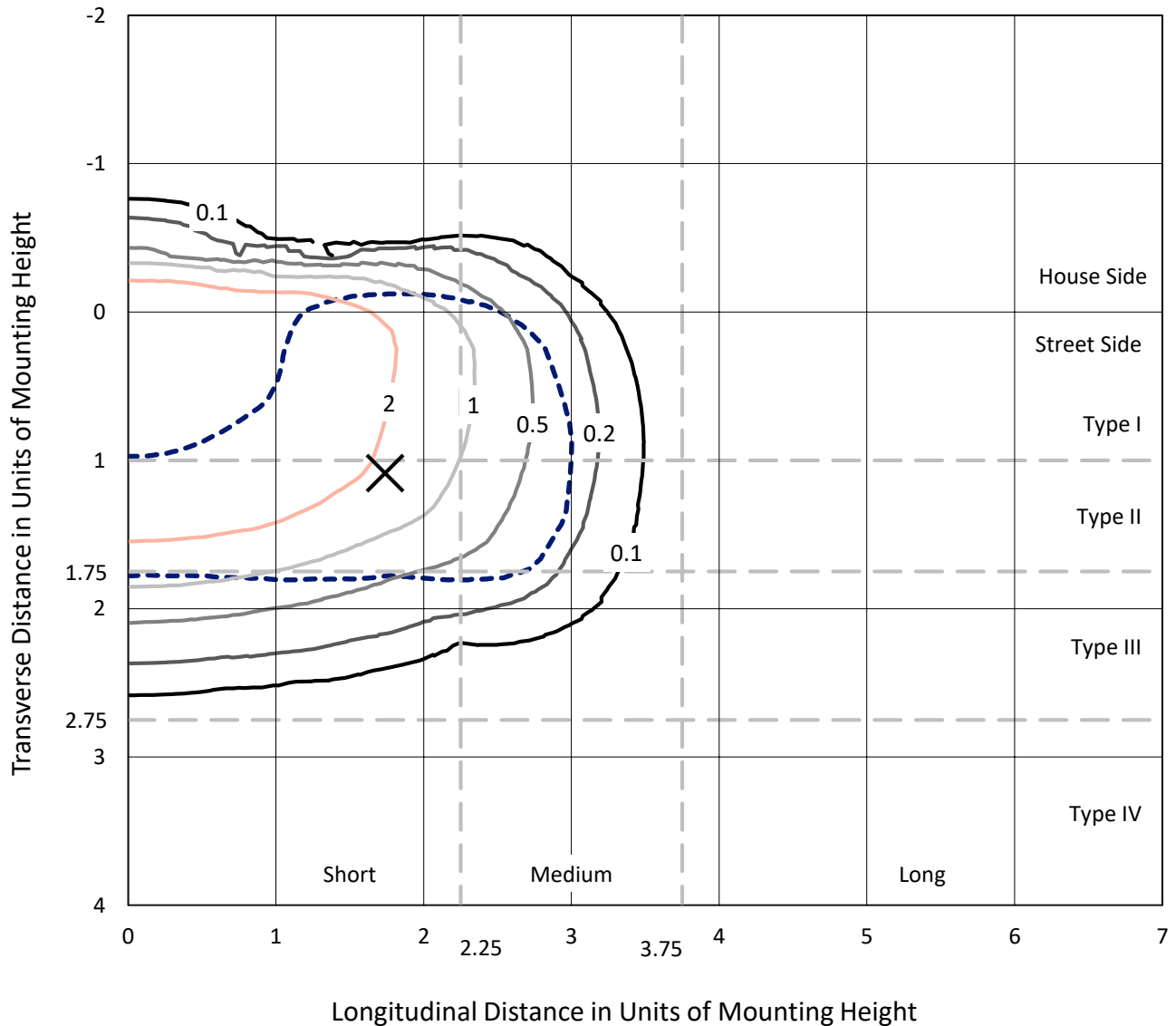


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

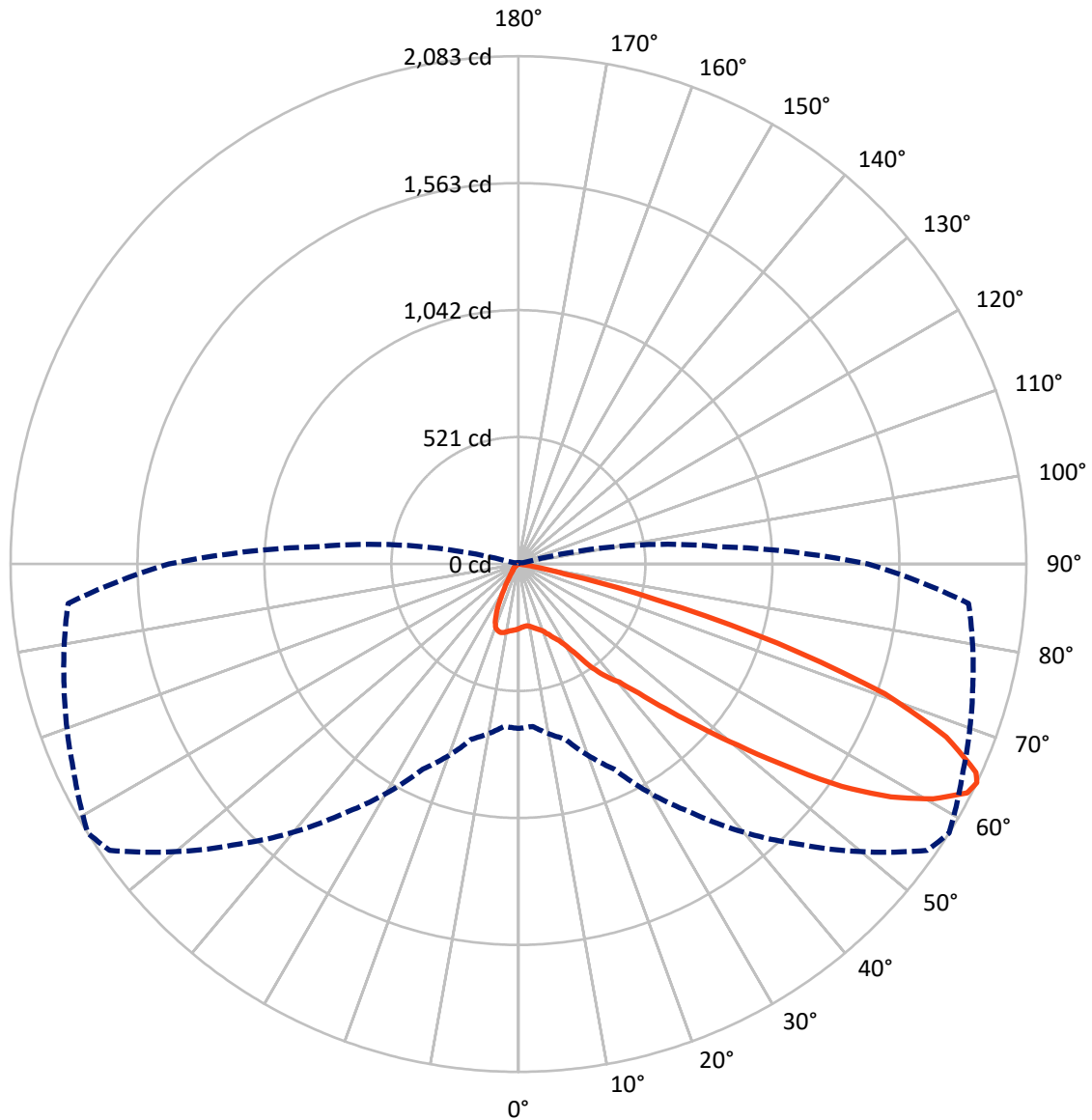


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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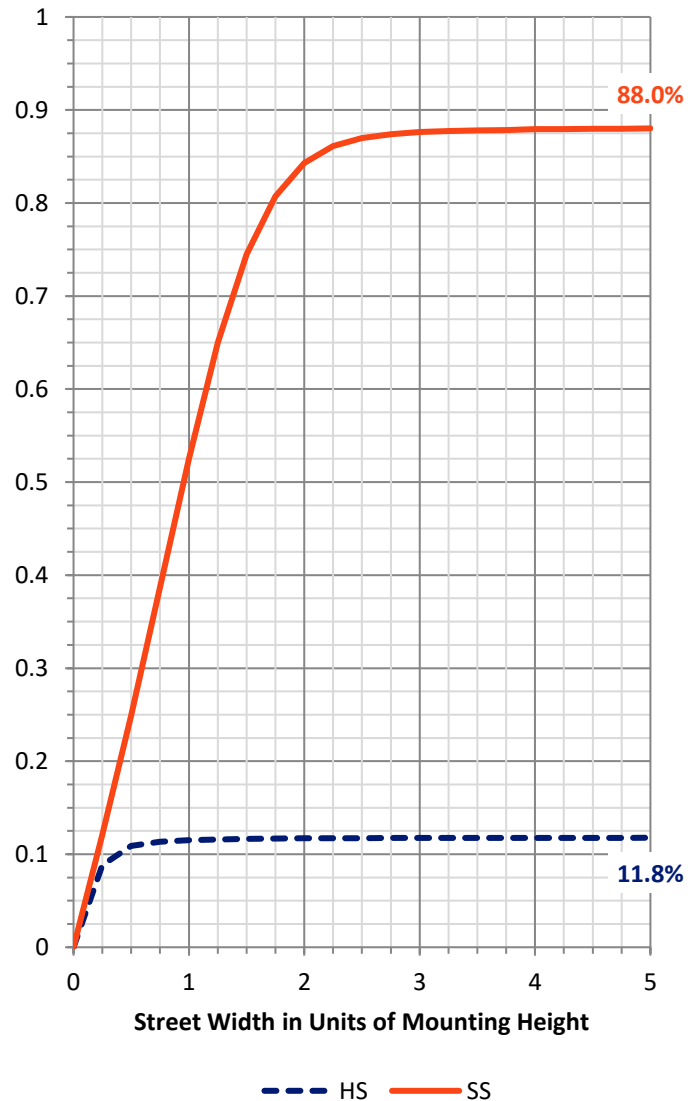
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	295.0	0.0	295.0
	% Fixture	11.9	0.0	11.9
<b>Street Side</b>	Lumens	2179.1	0.0	2179.1
	% Fixture	88.1	0.0	88.1
<b>Total</b>	Lumens	2474.0	0.0	2474.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.0	1.0
10°-20°	73.0	3.0
20°-30°	131.2	5.3
30°-40°	229.9	9.3
40°-50°	420.4	17.0
50°-60°	719.1	29.1
60°-70°	697.6	28.2
70°-80°	172.8	7.0
80°-90°	4.9	0.2
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°	2474.0	100.0
0°-180°	2474.0	100.0



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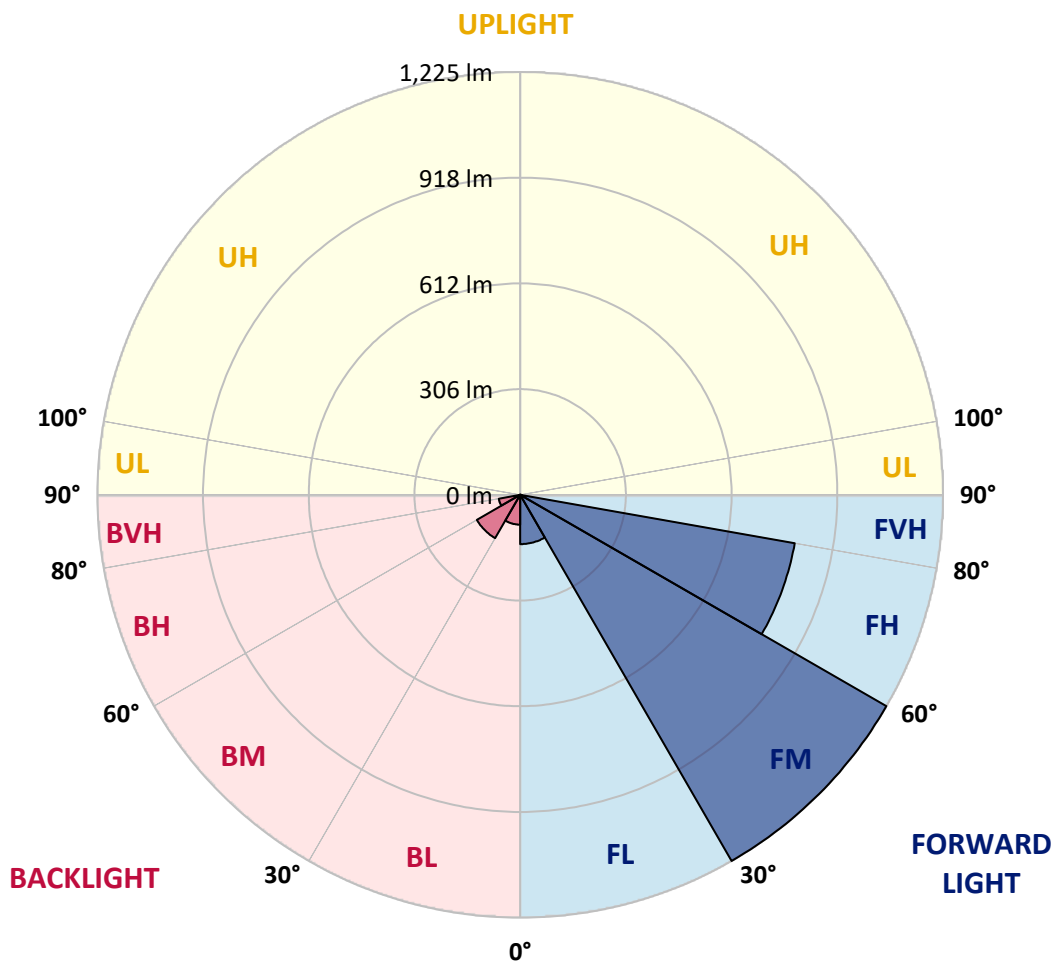
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.8	5.8			
FM (30°-60°)	1224.6	49.5			
FH (60°-80°)	807.4	32.6			G1/1800
FVH (80°-90°)	4.2	0.2			G0/10
BL (0°-30°)	86.4	3.5	B0/110		
BM (30°-60°)	144.9	5.9	B0/220		
BH (60°-80°)	63.0	2.5	B0/110		G0/110
BVH (80°-90°)	0.7	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0
2.5°	254.0	254.0	254.9	255.4	256.8	258.1	260.0	260.4	261.3	263.6	264.5
5°	240.3	240.7	241.7	244.0	247.2	250.8	255.4	256.8	260.4	265.0	268.2
7.5°	234.8	235.3	236.6	239.4	243.5	249.0	254.5	256.3	261.3	268.7	273.2
10°	233.9	233.9	235.7	239.8	244.9	251.7	257.7	260.0	266.8	275.5	282.9
12.5°	233.9	233.9	236.2	241.2	247.2	255.9	264.1	267.3	275.1	286.1	295.2
15°	238.0	238.9	240.3	243.5	250.4	260.0	271.4	275.1	284.7	298.0	309.4
17.5°	267.3	266.4	261.8	257.7	256.3	264.5	278.3	283.3	297.5	314.4	326.8
20°	324.0	323.6	315.4	295.2	277.4	272.8	288.8	294.8	315.4	337.8	346.9
22.5°	392.7	395.0	382.2	355.2	318.6	295.2	304.4	312.6	339.2	366.2	371.6
25°	460.9	463.6	451.7	417.9	373.0	332.3	325.9	333.2	363.4	390.4	388.1
27.5°	541.5	539.2	527.3	488.8	436.6	382.2	354.7	356.1	379.4	409.6	402.3
30°	600.5	597.3	585.9	559.8	510.8	448.5	395.9	391.8	398.7	432.1	424.3
32.5°	654.5	656.8	648.1	613.3	567.1	516.7	457.7	446.7	444.0	472.3	459.5
35°	708.1	707.6	704.4	673.7	628.4	580.8	531.4	523.6	522.7	550.2	515.4
37.5°	772.1	768.9	763.0	731.9	695.7	650.4	597.8	585.4	583.1	588.6	547.9
40°	840.8	844.9	835.3	802.8	763.4	729.6	655.9	637.1	621.6	637.6	611.5
42.5°	942.9	946.1	929.1	906.7	855.9	824.3	749.7	724.1	716.8	741.0	711.7
45°	1071.0	1065.1	1053.6	1038.1	995.9	947.9	870.1	845.8	838.0	879.7	831.6
47.5°	1170.8	1169.9	1170.3	1167.1	1160.7	1103.0	1010.6	994.1	986.3	1046.3	993.2
50°	1234.0	1237.6	1253.2	1293.0	1322.3	1298.0	1189.6	1169.4	1163.5	1225.7	1153.9
52.5°	1281.6	1290.2	1316.3	1395.1	1488.9	1497.1	1407.4	1379.0	1365.3	1382.7	1282.9
55°	1305.8	1309.9	1349.7	1466.0	1612.9	1672.0	1634.4	1610.6	1555.3	1522.3	1434.4
57.5°	1249.1	1242.6	1311.3	1459.1	1677.0	1812.9	1829.0	1802.0	1713.2	1687.5	1618.4
60°	1100.3	1097.6	1174.9	1352.5	1621.2	1845.9	1973.1	1956.2	1874.7	1813.9	1748.9
62.5°	839.4	844.0	925.9	1106.7	1422.1	1751.1	2053.2	2067.0	1980.5	1889.8	1845.4
64°	674.2	668.7	743.8	927.8	1247.7	1624.8	2047.3	2083.4	2012.5	1929.6	1854.1
65°	566.2	554.3	626.1	792.7	1100.3	1533.3	2005.2	2063.3	2014.8	1939.3	1822.5
67.5°	298.0	304.4	335.0	481.5	742.8	1159.3	1805.6	1893.5	1913.2	1807.9	1588.2
70°	133.6	134.6	154.2	245.8	411.0	752.0	1452.3	1594.6	1605.6	1485.2	1150.6
72.5°	44.4	44.9	68.2	98.4	172.6	348.3	980.8	1110.4	1134.2	963.0	624.3
75°	27.5	28.4	36.2	53.1	80.1	121.7	497.1	584.9	590.0	427.0	227.0
77.5°	17.4	18.3	22.0	31.6	43.9	46.2	162.9	197.3	223.4	153.8	70.5
80°	11.0	11.0	14.2	19.2	22.9	19.7	44.4	58.6	70.5	51.7	23.8
82.5°	4.1	4.1	7.3	10.5	9.6	6.9	11.9	15.6	27.0	25.6	11.4
85°	0.0	0.0	0.5	0.9	0.5	0.9	2.3	3.2	5.0	7.3	3.7
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.9	0.9	0.9	0.9
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°	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0
2.5°	265.9	266.8	268.7	269.1	269.6	268.2	269.6	268.2	269.1	269.1	269.1
5°	270.0	271.4	272.8	273.2	272.8	269.6	270.5	268.2	267.8	267.8	267.8
7.5°	275.5	276.9	279.2	277.8	275.1	270.5	270.0	266.8	265.5	265.5	265.9
10°	285.6	287.0	287.9	285.1	279.7	272.8	267.8	260.9	257.7	256.3	256.3
12.5°	298.4	299.8	299.3	294.8	284.7	270.5	256.3	243.0	233.4	229.8	226.1
15°	312.1	314.0	313.1	303.5	284.2	259.1	231.6	200.5	181.2	168.9	166.6
17.5°	328.2	330.0	325.4	308.0	277.4	234.8	182.6	140.5	112.6	102.1	101.6
20°	347.8	346.9	335.9	308.5	265.0	189.9	122.2	87.9	76.0	73.2	72.8
22.5°	370.3	366.2	346.0	305.7	231.1	129.1	78.7	69.6	68.2	67.3	67.3
25°	383.1	375.8	349.7	298.0	178.0	82.4	66.8	65.0	63.2	61.3	60.9
27.5°	393.2	382.2	351.1	272.3	118.5	63.2	60.4	58.6	55.8	53.1	52.6
30°	411.5	395.0	353.3	227.5	72.8	54.0	52.6	49.4	45.3	42.6	41.7
32.5°	444.4	420.6	362.5	170.3	53.1	47.6	43.9	39.8	35.2	32.5	32.5
35°	479.7	444.9	367.1	112.1	46.2	41.7	36.2	31.1	27.0	24.7	24.3
37.5°	512.2	479.7	365.7	68.7	41.2	35.7	29.8	24.7	21.1	19.2	19.2
40°	578.5	540.5	346.9	47.1	36.2	30.2	24.3	19.2	16.9	15.6	15.6
42.5°	673.3	607.4	305.3	40.3	31.6	25.2	19.2	16.0	14.2	12.8	12.8
45°	779.5	681.1	243.5	36.2	27.5	21.1	16.0	13.3	11.4	11.0	11.0
47.5°	918.6	770.3	179.0	32.5	23.8	17.9	13.3	11.0	10.1	9.6	9.6
50°	1040.3	842.6	122.2	28.4	21.1	15.1	11.4	10.1	9.2	8.7	8.7
52.5°	1151.1	893.0	80.6	24.7	18.8	12.4	10.5	9.2	8.7	8.2	8.2
55°	1281.6	931.4	54.5	21.5	16.5	11.4	10.1	9.2	8.2	8.2	7.8
57.5°	1392.3	954.3	38.9	18.3	14.6	10.5	9.6	8.7	7.8	7.3	7.3
60°	1456.8	927.3	28.4	16.0	12.8	9.6	8.7	7.8	7.3	6.9	6.9
62.5°	1474.7	875.1	22.0	13.7	11.0	8.7	7.8	6.9	6.4	6.0	6.0
64°	1433.5	819.3	18.8	11.9	9.6	7.8	7.3	6.4	5.5	4.6	4.6
65°	1375.4	767.6	16.9	11.0	8.7	7.3	6.9	6.0	4.6	3.7	3.7
67.5°	1146.1	611.9	13.7	9.2	6.9	6.4	5.5	4.6	3.2	2.3	2.3
70°	813.8	427.9	10.5	7.3	6.0	6.0	5.0	3.7	1.8	0.9	0.9
72.5°	430.7	222.4	8.7	6.0	4.6	4.6	4.1	2.3	1.4	0.9	0.5
75°	150.6	73.2	7.3	5.0	4.1	3.2	2.7	1.8	1.4	0.9	0.5
77.5°	45.8	24.3	6.4	5.0	3.7	2.7	3.2	2.7	2.7	1.8	1.4
80°	14.6	8.7	3.7	3.2	3.7	3.7	3.2	2.7	3.2	2.3	1.8
82.5°	5.5	3.2	1.4	1.8	1.8	2.3	2.3	1.8	1.4	0.5	0.0
85°	1.8	1.4	0.9	1.4	1.4	1.4	0.9	0.9	0.5	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	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)