

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: P401267

Luminaire Tested: **ENV-SA1C-727-U-T4W-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1C-727-U-T4W-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2813 lumens  
Efficiency: N/A  
Efficacy: 84.5 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

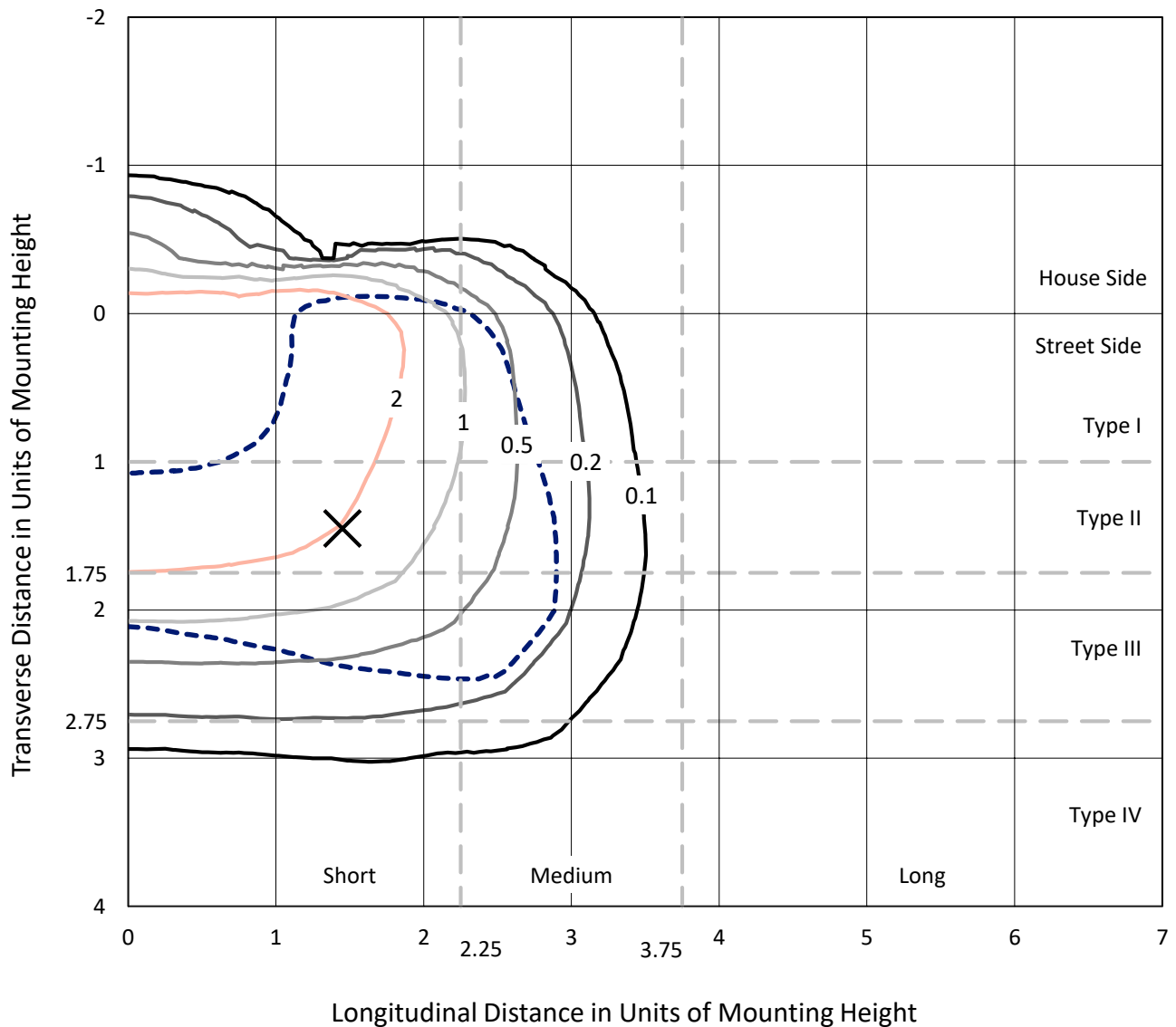
Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

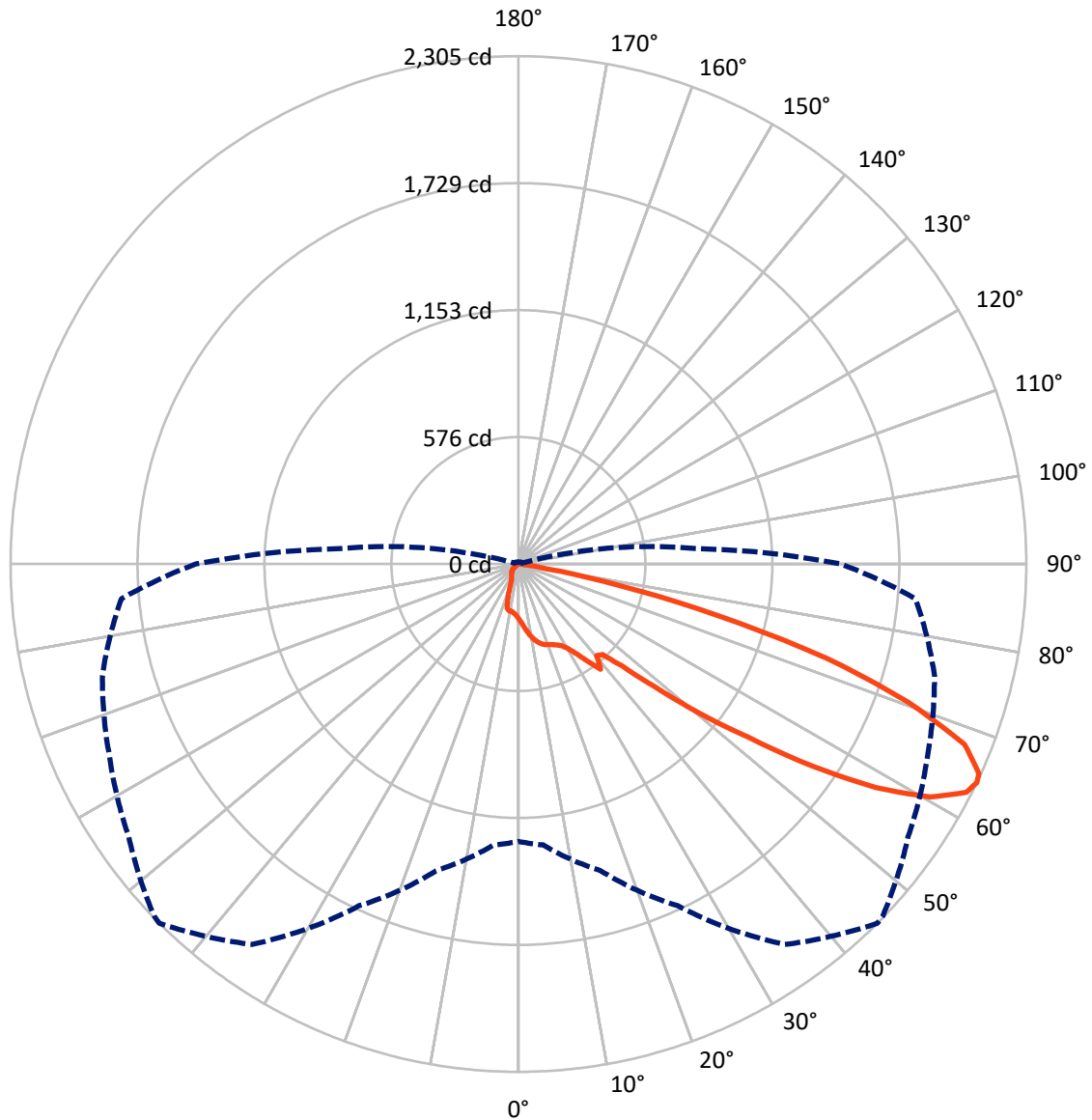
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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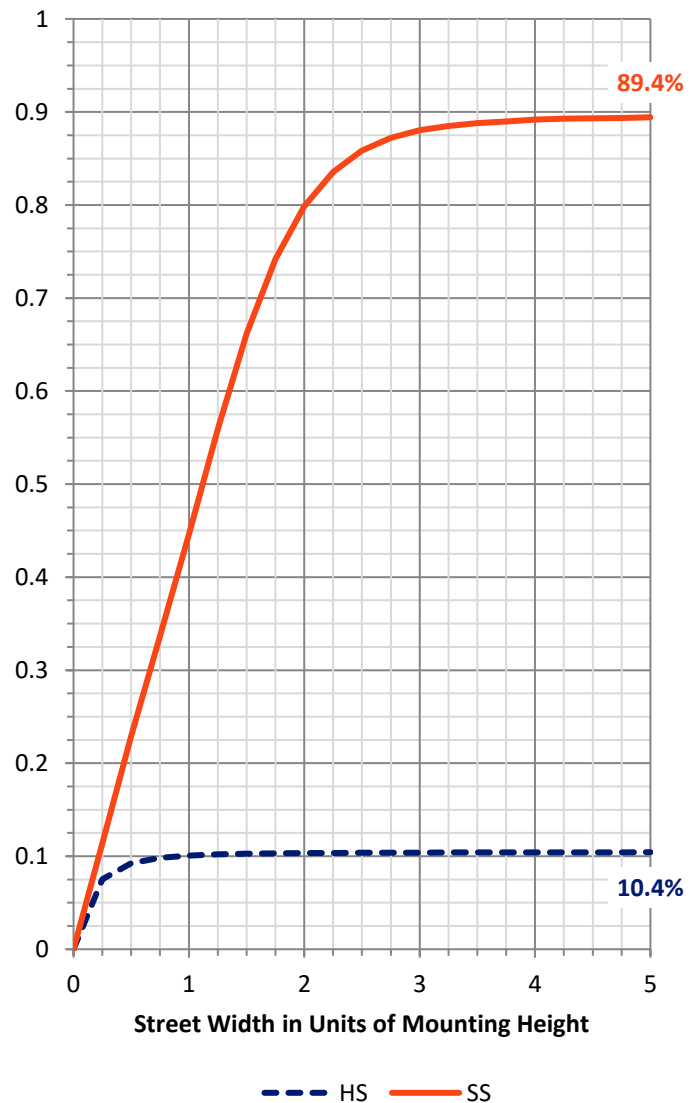
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	296.8	0.0	296.8
	% Fixture	10.6	0.0	10.6
<b>Street Side</b>	Lumens	2516.2	0.0	2516.2
	% Fixture	89.4	0.0	89.4
<b>Total</b>	Lumens	2813.0	0.0	2813.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.3	0.9
10°-20°	78.9	2.8
20°-30°	128.4	4.6
30°-40°	203.9	7.2
40°-50°	388.4	13.8
50°-60°	800.4	28.5
60°-70°	893.9	31.8
70°-80°	282.3	10.0
80°-90°	11.5	0.4
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°	2813.0	100.0
0°-180°	2813.0	100.0



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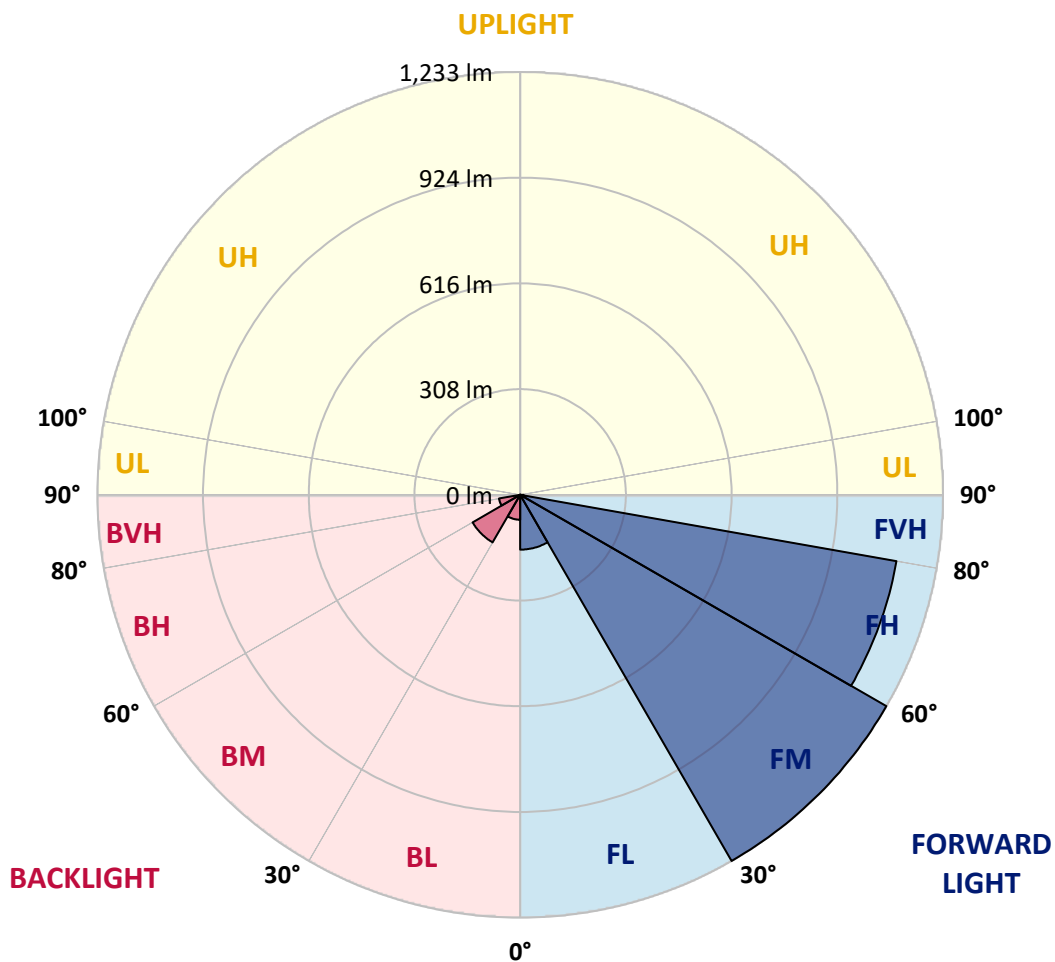
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	159.8	5.7			
FM	(30°-60°)	1232.6	43.8			
FH	(60°-80°)	1113.7	39.6			G1/1800
FVH	(80°-90°)	10.1	0.4			G1/100
BL	(0°-30°)	72.7	2.6	B0/110		
BM	(30°-60°)	160.2	5.7	B0/220		
BH	(60°-80°)	62.6	2.2	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3
2.5°	275.1	276.1	274.5	272.4	270.2	266.5	267.0	262.2	258.5	255.8	251.5
5°	309.9	309.4	306.2	301.3	296.5	289.6	288.5	281.0	272.9	264.4	256.3
7.5°	345.3	343.7	340.5	334.1	324.9	315.8	313.1	302.4	290.6	277.8	263.8
10°	374.3	373.2	369.4	362.5	351.8	337.8	337.8	322.8	307.2	291.7	275.1
12.5°	397.9	396.8	392.5	383.9	371.1	358.7	357.1	343.7	326.6	308.3	287.9
15°	412.3	411.3	406.4	396.8	385.5	374.3	372.7	359.8	344.2	323.3	299.7
17.5°	416.1	415.0	411.3	402.7	394.1	384.5	382.3	371.1	357.7	336.2	312.1
20°	414.5	412.3	410.2	403.2	396.3	389.8	388.8	380.7	368.9	350.7	324.9
22.5°	410.2	408.1	406.4	401.6	397.9	397.3	396.3	391.4	383.9	368.4	344.2
25°	408.6	407.0	405.4	402.2	401.6	407.0	406.4	405.9	402.7	389.3	364.1
27.5°	417.7	417.2	413.4	408.1	410.7	419.9	420.4	423.1	420.9	412.3	393.0
30°	449.9	447.2	438.6	426.8	433.8	445.6	447.7	456.3	456.8	457.9	431.6
32.5°	493.3	489.0	474.5	459.5	463.8	485.8	486.3	499.7	528.2	510.5	452.6
35°	523.3	518.0	496.0	487.9	509.4	544.3	549.1	576.4	578.6	514.2	451.0
37.5°	607.5	599.5	559.3	510.5	531.4	606.5	611.8	607.0	561.9	508.9	474.0
40°	720.1	712.6	676.7	594.7	535.7	546.9	549.6	564.1	572.7	546.4	548.0
42.5°	866.5	856.9	819.9	719.6	602.7	561.4	566.8	596.3	652.6	664.9	728.2
45°	1016.1	1010.8	973.2	864.9	725.0	660.1	662.8	698.7	799.5	877.2	930.9
47.5°	1162.5	1163.6	1131.4	1039.7	903.0	831.1	827.9	874.6	1002.2	1057.4	1112.1
50°	1368.9	1367.9	1310.5	1253.7	1146.9	1061.7	1056.3	1082.6	1205.4	1225.8	1310.5
52.5°	1603.8	1602.7	1516.4	1489.6	1444.5	1307.3	1321.8	1299.2	1387.7	1424.2	1544.3
55°	1715.3	1705.7	1669.2	1703.0	1756.6	1618.8	1616.7	1530.9	1600.0	1631.1	1743.2
57.5°	1704.1	1707.8	1742.7	1854.7	2030.6	1915.3	1918.6	1759.3	1799.5	1818.8	1900.9
60°	1640.3	1642.9	1723.9	1910.5	2167.4	2147.5	2136.3	1972.7	1946.4	1938.4	1977.5
62.5°	1457.9	1459.0	1590.4	1830.1	2166.3	2281.6	2270.8	2122.8	2040.8	1989.3	1918.0
64°	1259.6	1279.9	1440.8	1711.6	2107.8	2305.2	2299.3	2159.3	2049.4	1955.0	1808.6
65°	1096.5	1127.1	1321.8	1606.5	2041.9	2297.1	2290.1	2152.9	2037.6	1890.7	1695.5
67.5°	748.0	764.1	938.9	1264.4	1790.4	2184.0	2181.8	2070.3	1909.4	1633.3	1330.3
70°	441.3	453.1	582.3	882.6	1375.9	1876.2	1904.6	1864.4	1585.0	1173.2	847.2
72.5°	137.3	144.2	256.8	490.1	901.9	1461.7	1498.7	1469.7	1153.9	733.0	469.7
75°	51.5	53.6	84.7	212.9	448.8	934.6	945.9	979.7	703.0	387.1	205.4
77.5°	28.4	29.0	41.8	79.9	197.3	459.0	469.7	465.4	373.7	182.8	65.4
80°	13.9	14.5	20.4	35.4	76.7	129.8	153.9	203.2	131.9	90.1	20.9
82.5°	4.8	4.3	9.1	16.1	25.7	34.9	39.1	56.3	55.2	49.3	7.5
85°	0.0	0.0	0.5	0.5	0.5	1.1	1.1	7.0	13.9	16.1	2.1
87.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
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°	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3
2.5°	249.3	248.3	244.5	240.8	238.1	234.9	234.3	232.2	231.6	231.6	231.6
5°	252.0	248.8	241.8	235.9	230.6	225.7	223.6	221.5	219.8	219.3	219.3
7.5°	257.9	253.1	241.8	233.3	225.2	219.3	216.1	213.9	212.3	212.3	212.3
10°	266.5	259.0	245.0	233.3	223.6	216.1	211.3	208.0	205.9	205.4	205.9
12.5°	277.2	267.6	250.4	235.9	224.7	215.0	204.8	186.1	173.7	166.8	165.7
15°	287.4	276.1	256.3	239.7	226.3	204.8	167.8	138.9	119.6	113.7	112.6
17.5°	298.7	286.9	264.4	245.0	220.4	165.2	119.6	95.4	91.7	92.8	92.8
20°	312.6	298.7	272.9	250.4	189.8	117.4	87.4	84.2	85.3	87.4	87.4
22.5°	328.7	313.7	284.7	247.2	144.8	85.8	79.9	80.4	81.5	83.6	83.6
25°	349.6	334.1	297.6	223.1	100.8	75.1	75.6	76.1	77.8	79.9	80.4
27.5°	380.7	361.9	313.1	187.1	76.1	69.7	70.2	71.9	73.5	76.1	76.1
30°	414.0	390.9	327.1	144.2	66.5	63.8	64.3	66.0	68.6	70.8	71.9
32.5°	428.4	408.1	329.8	98.7	61.7	59.0	57.9	59.5	61.7	63.8	64.3
35°	436.5	427.9	316.9	71.3	57.9	54.7	52.5	52.0	52.5	54.2	54.2
37.5°	476.2	470.3	291.2	61.1	54.2	50.9	47.7	45.0	44.0	43.4	44.0
40°	552.3	539.4	257.4	56.3	50.9	47.2	42.9	38.6	34.9	33.2	33.2
42.5°	720.1	655.2	209.1	53.1	47.7	43.4	37.0	31.1	26.8	25.7	25.7
45°	900.8	798.9	157.1	50.4	44.5	39.1	31.1	24.7	20.9	19.8	19.8
47.5°	1074.6	905.1	109.9	47.2	40.8	34.3	25.7	19.8	17.2	16.6	16.6
50°	1256.9	997.3	76.7	43.4	37.0	29.5	20.9	16.1	14.5	14.5	14.5
52.5°	1434.4	1065.4	56.3	39.7	32.2	24.7	17.7	14.5	13.4	13.4	13.4
55°	1568.4	1091.7	42.9	34.9	27.3	20.9	16.1	13.9	12.9	12.3	12.3
57.5°	1658.0	1069.7	34.9	29.0	23.1	18.2	14.5	12.9	11.8	11.3	11.3
60°	1655.8	996.8	27.9	23.6	18.8	15.6	13.4	11.8	10.7	10.2	10.2
62.5°	1558.8	878.3	22.0	18.8	15.6	13.4	11.8	10.7	9.7	9.1	8.6
64°	1463.8	804.8	18.8	16.1	13.9	12.3	10.7	9.7	8.6	7.5	7.5
65°	1360.9	735.1	17.2	14.5	12.3	11.3	10.2	9.1	7.5	6.4	6.4
67.5°	1034.9	544.3	13.9	11.3	9.7	9.1	8.0	7.0	5.4	4.3	4.3
70°	671.9	352.3	11.8	9.1	8.0	8.0	7.5	5.9	4.3	3.8	3.2
72.5°	344.2	175.3	9.7	7.5	7.0	7.0	6.4	4.8	3.8	3.2	2.7
75°	145.8	71.3	8.0	6.4	5.9	5.4	4.8	4.3	3.2	2.7	2.7
77.5°	50.9	26.8	7.5	6.4	4.8	4.3	4.3	4.3	4.3	3.8	3.2
80°	17.2	10.2	4.8	4.8	5.4	5.9	5.9	5.4	5.9	4.8	3.8
82.5°	7.0	3.8	1.6	2.1	3.8	4.3	4.8	4.8	4.8	3.8	3.2
85°	1.6	1.1	1.1	1.6	1.6	2.1	2.1	2.7	2.7	2.1	2.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.1	1.6	1.6	1.6
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)