

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: P401303

Luminaire Tested: **ENT-SA1C-735-U-T4W-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401303
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: ENT-SA1C-735-U-T4W-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 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: 3160 lumens
Efficiency: N/A
Efficacy: 94.9 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

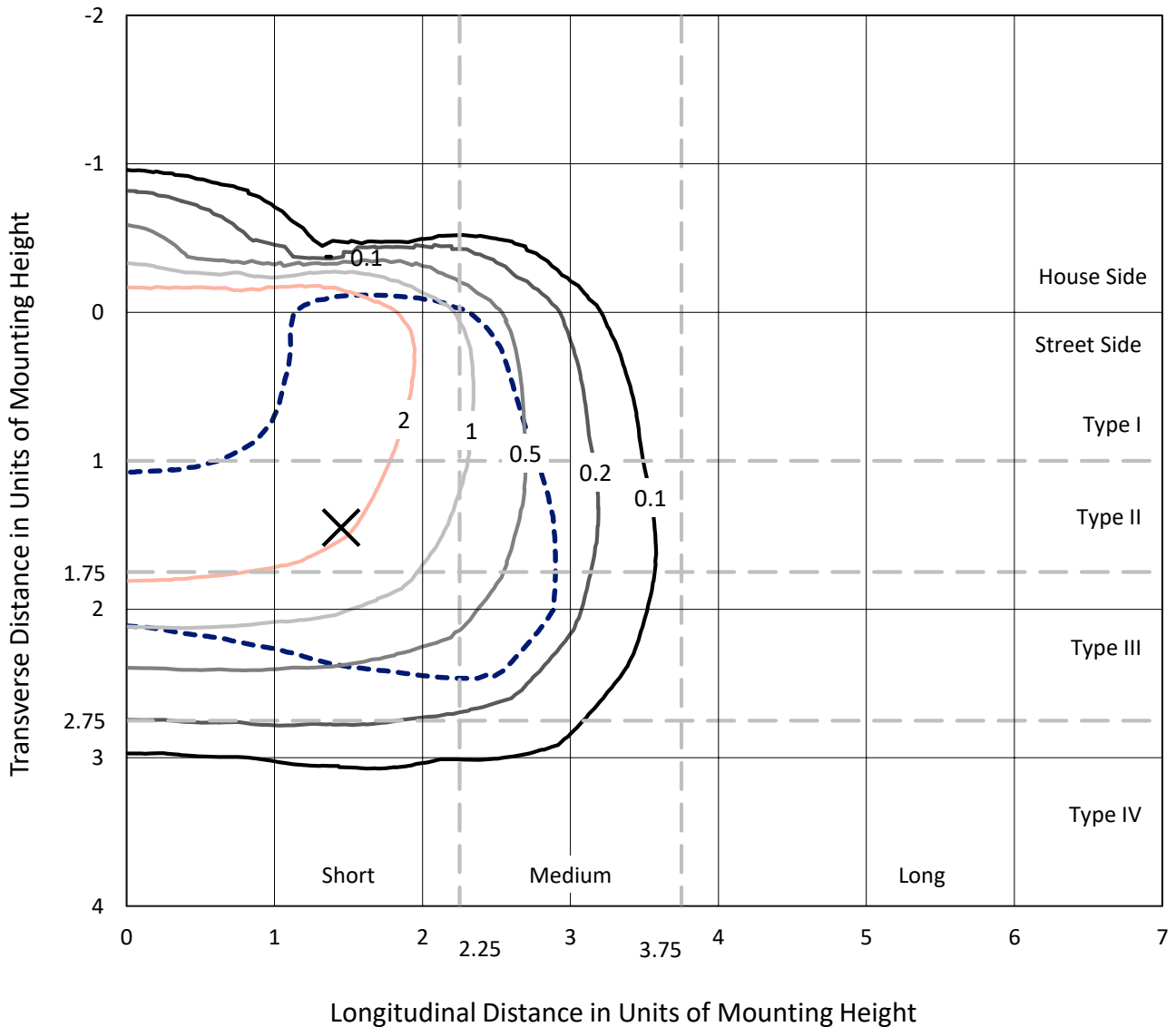
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

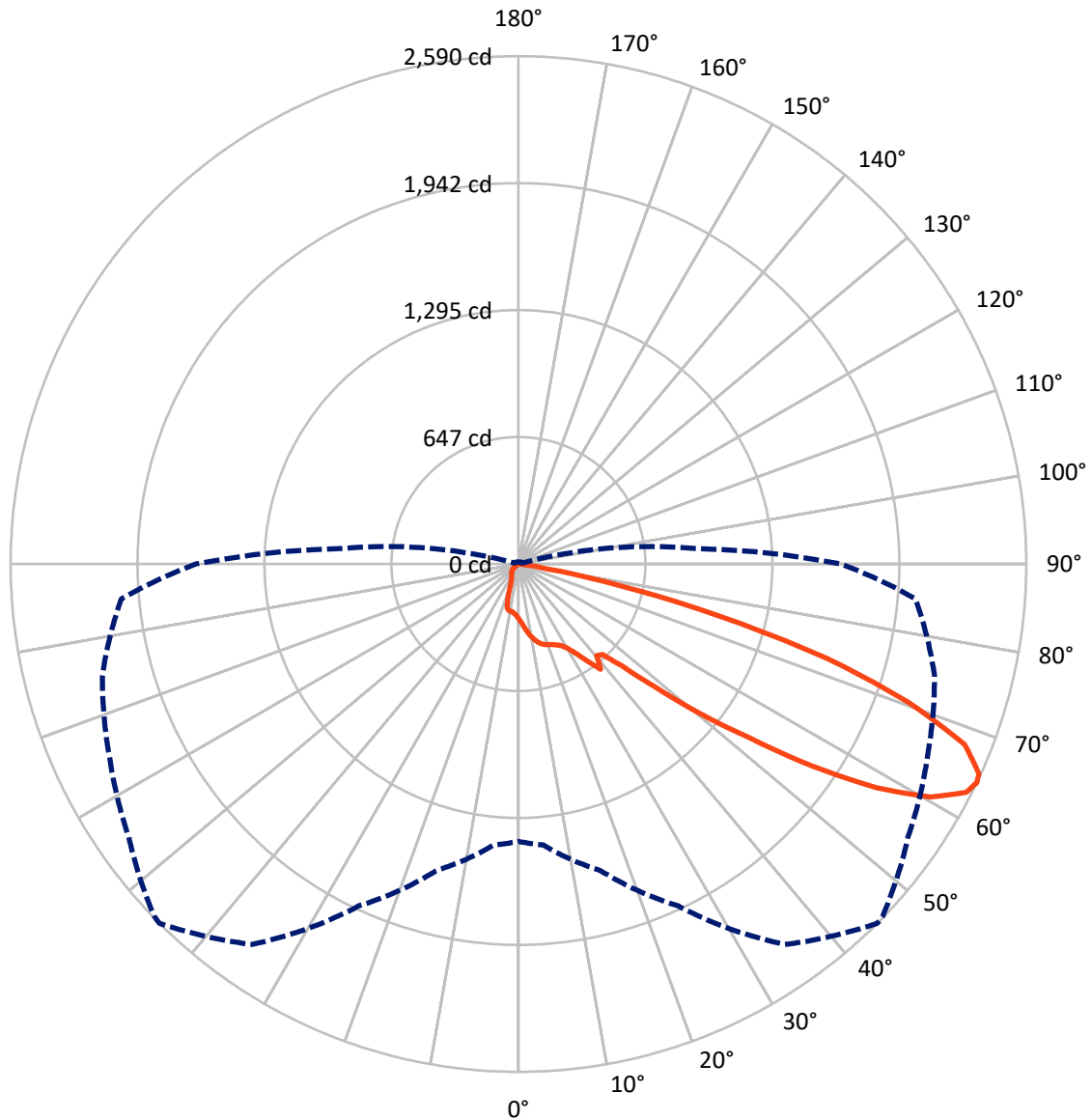
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 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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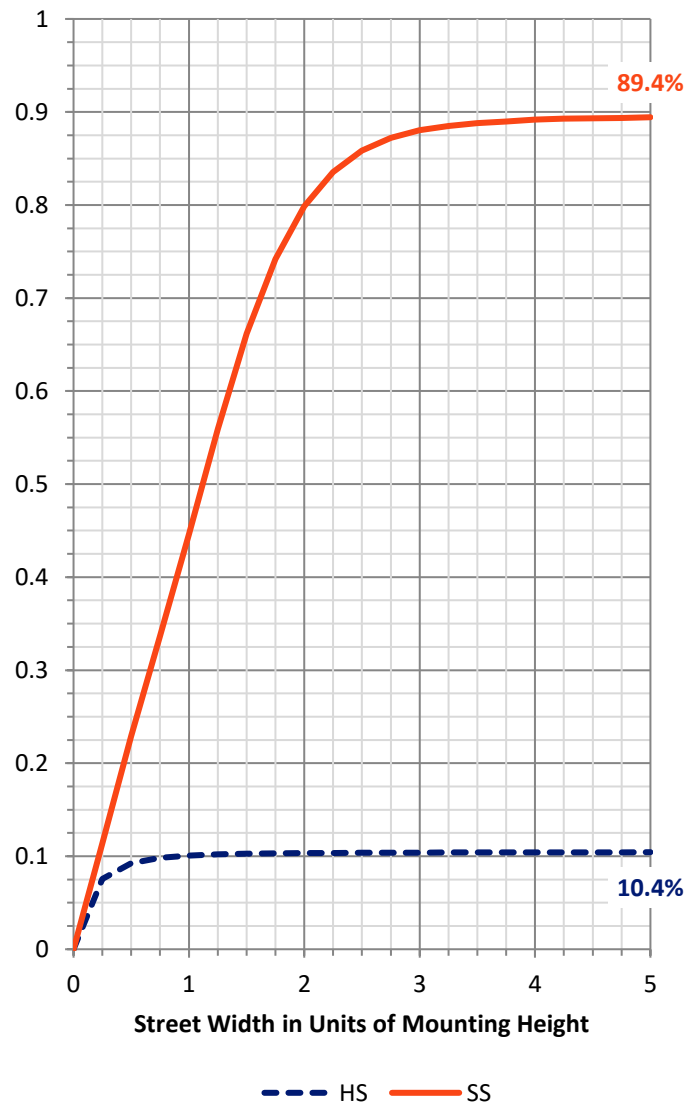
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	333.4	0.0	333.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2826.6	0.0	2826.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	3160.0	0.0	3160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	0.9
10°-20°	88.6	2.8
20°-30°	144.2	4.6
30°-40°	229.1	7.2
40°-50°	436.3	13.8
50°-60°	899.1	28.5
60°-70°	1004.2	31.8
70°-80°	317.2	10.0
80°-90°	12.9	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°	3160.0	100.0
0°-180°	3160.0	100.0



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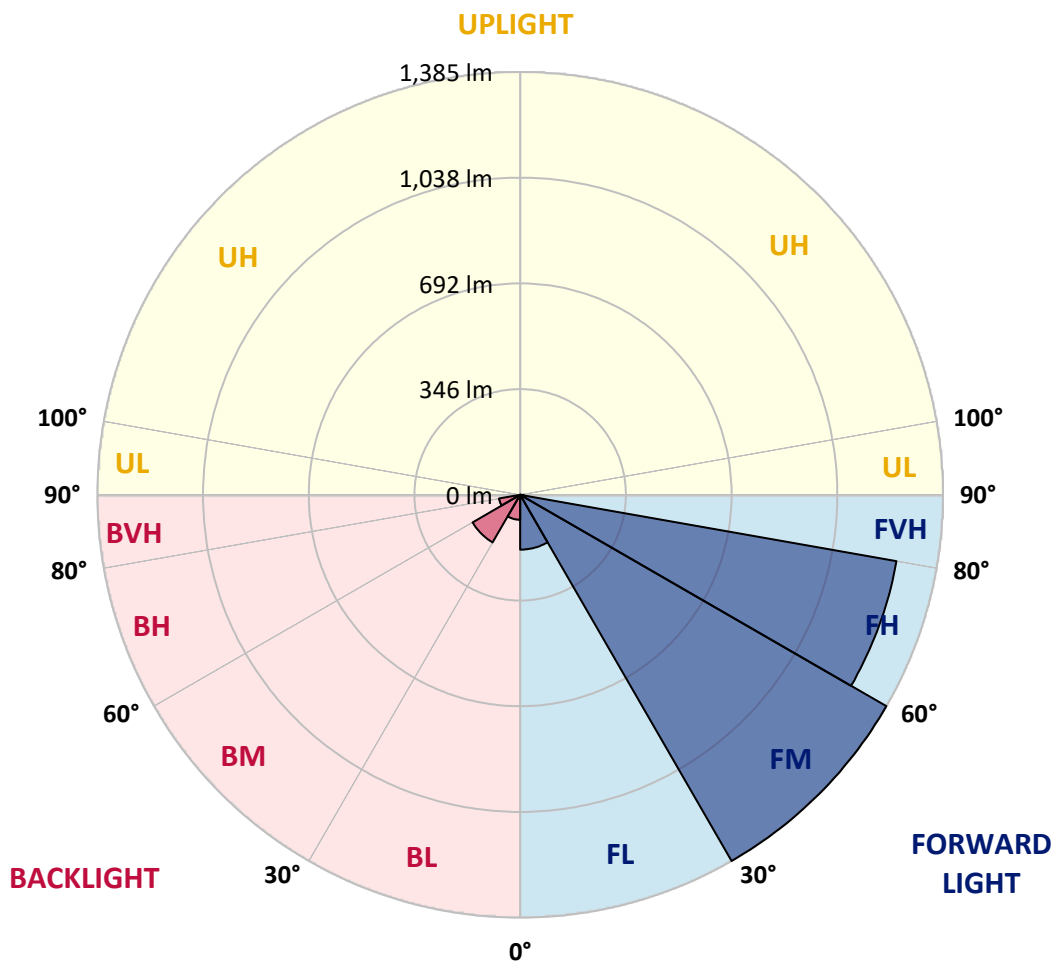
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.5	5.7			
FM	(30°-60°)	1384.6	43.8			
FH	(60°-80°)	1251.1	39.6			G1/1800
FVH	(80°-90°)	11.4	0.4			G1/100
BL	(0°-30°)	81.7	2.6	B0/110		
BM	(30°-60°)	180.0	5.7	B0/220		
BH	(60°-80°)	70.3	2.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1
2.5°	309.0	310.2	308.4	306.0	303.6	299.4	300.0	294.6	290.3	287.3	282.5
5°	348.2	347.6	343.9	338.5	333.1	325.3	324.1	315.6	306.6	297.0	287.9
7.5°	387.9	386.1	382.5	375.3	365.0	354.8	351.8	339.7	326.5	312.0	296.4
10°	420.4	419.2	415.0	407.2	395.1	379.5	379.5	362.6	345.1	327.7	309.0
12.5°	446.9	445.7	440.9	431.3	416.8	403.0	401.2	386.1	366.8	346.4	323.5
15°	463.2	462.0	456.6	445.7	433.1	420.4	418.6	404.2	386.7	363.2	336.7
17.5°	467.4	466.2	462.0	452.4	442.7	431.9	429.5	416.8	401.8	377.7	350.6
20°	465.6	463.2	460.8	453.0	445.1	437.9	436.7	427.7	414.4	393.9	365.0
22.5°	460.8	458.4	456.6	451.2	446.9	446.3	445.1	439.7	431.3	413.8	386.7
25°	459.0	457.2	455.4	451.8	451.2	457.2	456.6	456.0	452.4	437.3	409.0
27.5°	469.2	468.6	464.4	458.4	461.4	471.6	472.2	475.3	472.8	463.2	441.5
30°	505.4	502.4	492.7	479.5	487.3	500.6	503.0	512.6	513.2	514.4	484.9
32.5°	554.2	549.3	533.1	516.2	521.0	545.7	546.3	561.4	593.3	573.4	508.4
35°	587.9	581.9	557.2	548.1	572.2	611.4	616.8	647.5	649.9	577.7	506.6
37.5°	682.5	673.4	628.3	573.4	596.9	681.3	687.3	681.9	631.3	571.6	532.5
40°	809.0	800.5	760.2	668.0	601.7	614.4	617.4	633.7	643.3	613.8	615.6
42.5°	973.4	962.6	921.0	808.4	677.0	630.7	636.7	669.8	733.1	746.9	818.0
45°	1141.5	1135.4	1093.3	971.6	814.4	741.5	744.5	784.9	898.1	985.4	1045.7
47.5°	1305.9	1307.1	1271.0	1168.0	1014.4	933.6	930.0	982.4	1125.8	1187.8	1249.3
50°	1537.8	1536.6	1472.1	1408.3	1288.4	1192.7	1186.6	1216.1	1354.1	1377.0	1472.1
52.5°	1801.6	1800.4	1703.5	1673.3	1622.7	1468.5	1484.8	1459.5	1558.9	1599.8	1734.8
55°	1926.9	1916.1	1875.1	1913.1	1973.3	1818.5	1816.1	1719.7	1797.4	1832.4	1958.2
57.5°	1914.3	1918.5	1957.6	2083.5	2281.1	2151.6	2155.2	1976.3	2021.5	2043.2	2135.3
60°	1842.6	1845.6	1936.6	2146.2	2434.7	2412.4	2399.8	2216.1	2186.5	2177.5	2221.5
62.5°	1637.8	1639.0	1786.6	2055.8	2433.5	2563.0	2551.0	2384.7	2292.6	2234.7	2154.6
64°	1414.9	1437.8	1618.5	1922.7	2367.8	2589.5	2582.9	2425.7	2302.2	2196.2	2031.7
65°	1231.8	1266.1	1484.8	1804.6	2293.8	2580.5	2572.6	2418.4	2288.9	2123.9	1904.6
67.5°	840.3	858.4	1054.7	1420.3	2011.3	2453.4	2451.0	2325.7	2145.0	1834.8	1494.4
70°	495.7	509.0	654.2	991.5	1545.6	2107.6	2139.6	2094.4	1780.6	1317.9	951.7
72.5°	154.2	162.0	288.5	550.5	1013.2	1642.0	1683.6	1651.0	1296.3	823.4	527.7
75°	57.8	60.2	95.2	239.1	504.2	1049.9	1062.5	1100.5	789.7	434.9	230.7
77.5°	31.9	32.5	47.0	89.8	221.7	515.6	527.7	522.8	419.8	205.4	73.5
80°	15.7	16.3	22.9	39.8	86.1	145.8	172.9	228.3	148.2	101.2	23.5
82.5°	5.4	4.8	10.2	18.1	28.9	39.2	44.0	63.2	62.0	55.4	8.4
85°	0.0	0.0	0.6	0.6	0.6	1.2	1.2	7.8	15.7	18.1	2.4
87.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
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°	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1
2.5°	280.1	278.9	274.7	270.5	267.4	263.8	263.2	260.8	260.2	260.2	260.2
5°	283.1	279.5	271.7	265.0	259.0	253.6	251.2	248.8	247.0	246.4	246.4
7.5°	289.7	284.3	271.7	262.0	253.0	246.4	242.7	240.3	238.5	238.5	238.5
10°	299.4	290.9	275.3	262.0	251.2	242.7	237.3	233.7	231.3	230.7	231.3
12.5°	311.4	300.6	281.3	265.0	252.4	241.5	230.1	209.0	195.2	187.3	186.1
15°	322.9	310.2	287.9	269.3	254.2	230.1	188.5	156.0	134.3	127.7	126.5
17.5°	335.5	322.3	297.0	275.3	247.6	185.5	134.3	107.2	103.0	104.2	104.2
20°	351.2	335.5	306.6	281.3	213.2	131.9	98.2	94.6	95.8	98.2	98.2
22.5°	369.2	352.4	319.8	277.7	162.6	96.4	89.8	90.4	91.6	94.0	94.0
25°	392.7	375.3	334.3	250.6	113.2	84.3	84.9	85.5	87.3	89.8	90.4
27.5°	427.7	406.6	351.8	210.2	85.5	78.3	78.9	80.7	82.5	85.5	85.5
30°	465.0	439.1	367.4	162.0	74.7	71.7	72.3	74.1	77.1	79.5	80.7
32.5°	481.3	458.4	370.4	110.8	69.3	66.3	65.1	66.9	69.3	71.7	72.3
35°	490.3	480.7	356.0	80.1	65.1	61.4	59.0	58.4	59.0	60.8	60.8
37.5°	534.9	528.3	327.1	68.7	60.8	57.2	53.6	50.6	49.4	48.8	49.4
40°	620.4	606.0	289.1	63.2	57.2	53.0	48.2	43.4	39.2	37.3	37.3
42.5°	809.0	736.1	234.9	59.6	53.6	48.8	41.6	34.9	30.1	28.9	28.9
45°	1012.0	897.5	176.5	56.6	50.0	44.0	34.9	27.7	23.5	22.3	22.3
47.5°	1207.1	1016.8	123.5	53.0	45.8	38.6	28.9	22.3	19.3	18.7	18.7
50°	1411.9	1120.4	86.1	48.8	41.6	33.1	23.5	18.1	16.3	16.3	16.3
52.5°	1611.3	1196.9	63.2	44.6	36.1	27.7	19.9	16.3	15.1	15.1	15.1
55°	1761.9	1226.4	48.2	39.2	30.7	23.5	18.1	15.7	14.5	13.9	13.9
57.5°	1862.5	1201.7	39.2	32.5	25.9	20.5	16.3	14.5	13.3	12.6	12.6
60°	1860.1	1119.8	31.3	26.5	21.1	17.5	15.1	13.3	12.0	11.4	11.4
62.5°	1751.0	986.7	24.7	21.1	17.5	15.1	13.3	12.0	10.8	10.2	9.6
64°	1644.4	904.1	21.1	18.1	15.7	13.9	12.0	10.8	9.6	8.4	8.4
65°	1528.8	825.8	19.3	16.3	13.9	12.6	11.4	10.2	8.4	7.2	7.2
67.5°	1162.5	611.4	15.7	12.6	10.8	10.2	9.0	7.8	6.0	4.8	4.8
70°	754.7	395.7	13.3	10.2	9.0	9.0	8.4	6.6	4.8	4.2	3.6
72.5°	386.7	197.0	10.8	8.4	7.8	7.8	7.2	5.4	4.2	3.6	3.0
75°	163.8	80.1	9.0	7.2	6.6	6.0	5.4	4.8	3.6	3.0	3.0
77.5°	57.2	30.1	8.4	7.2	5.4	4.8	4.8	4.8	4.8	4.2	3.6
80°	19.3	11.4	5.4	5.4	6.0	6.6	6.6	6.0	6.6	5.4	4.2
82.5°	7.8	4.2	1.8	2.4	4.2	4.8	5.4	5.4	5.4	4.2	3.6
85°	1.8	1.2	1.2	1.8	1.8	2.4	2.4	3.0	3.0	2.4	2.4
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.2	1.8	1.8	1.8
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)