

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: P401299

Luminaire Tested: **ENV-SA1C-735-U-T3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401299
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-SA1C-735-U-T3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA 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: 3256 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - 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

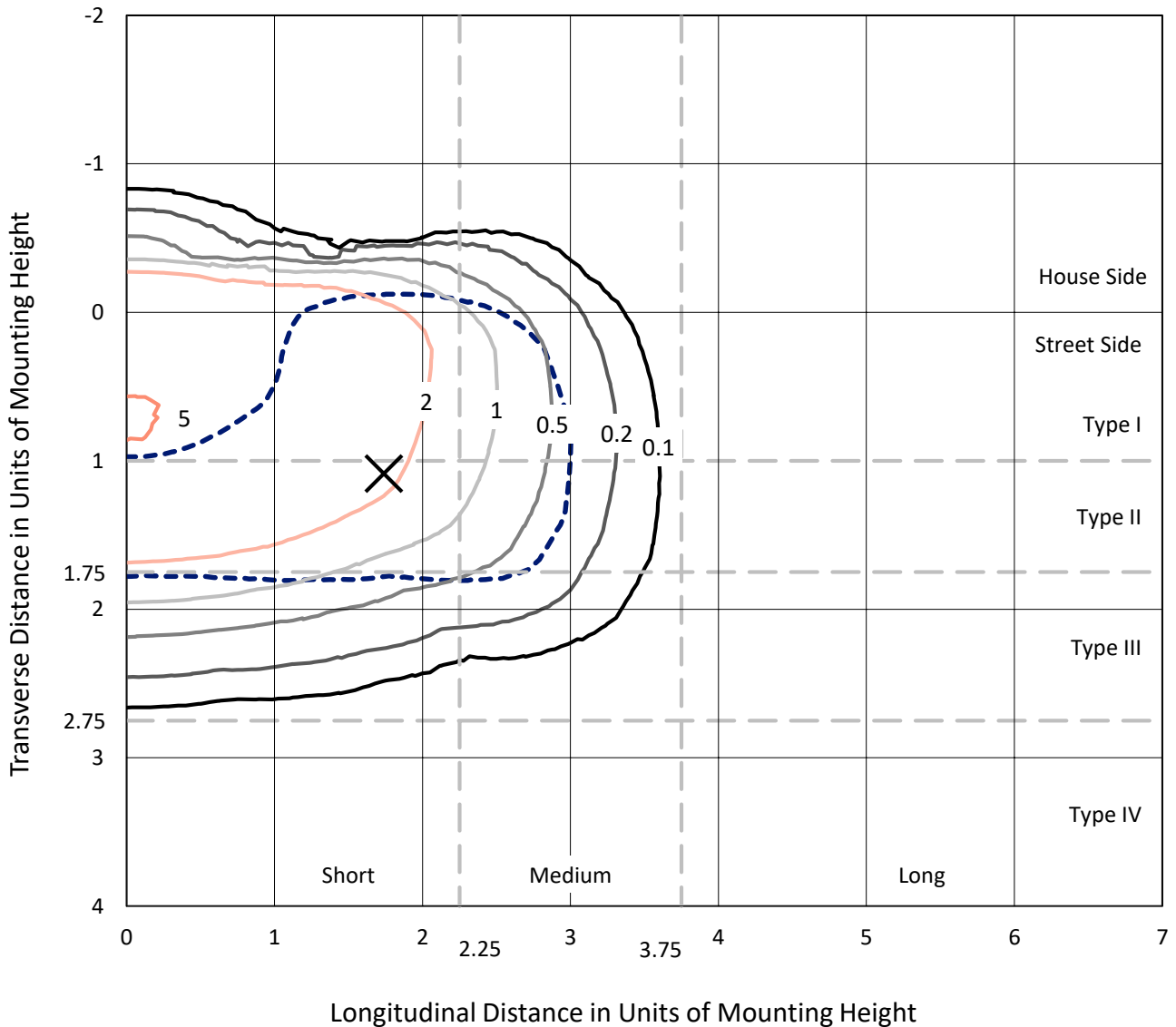


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

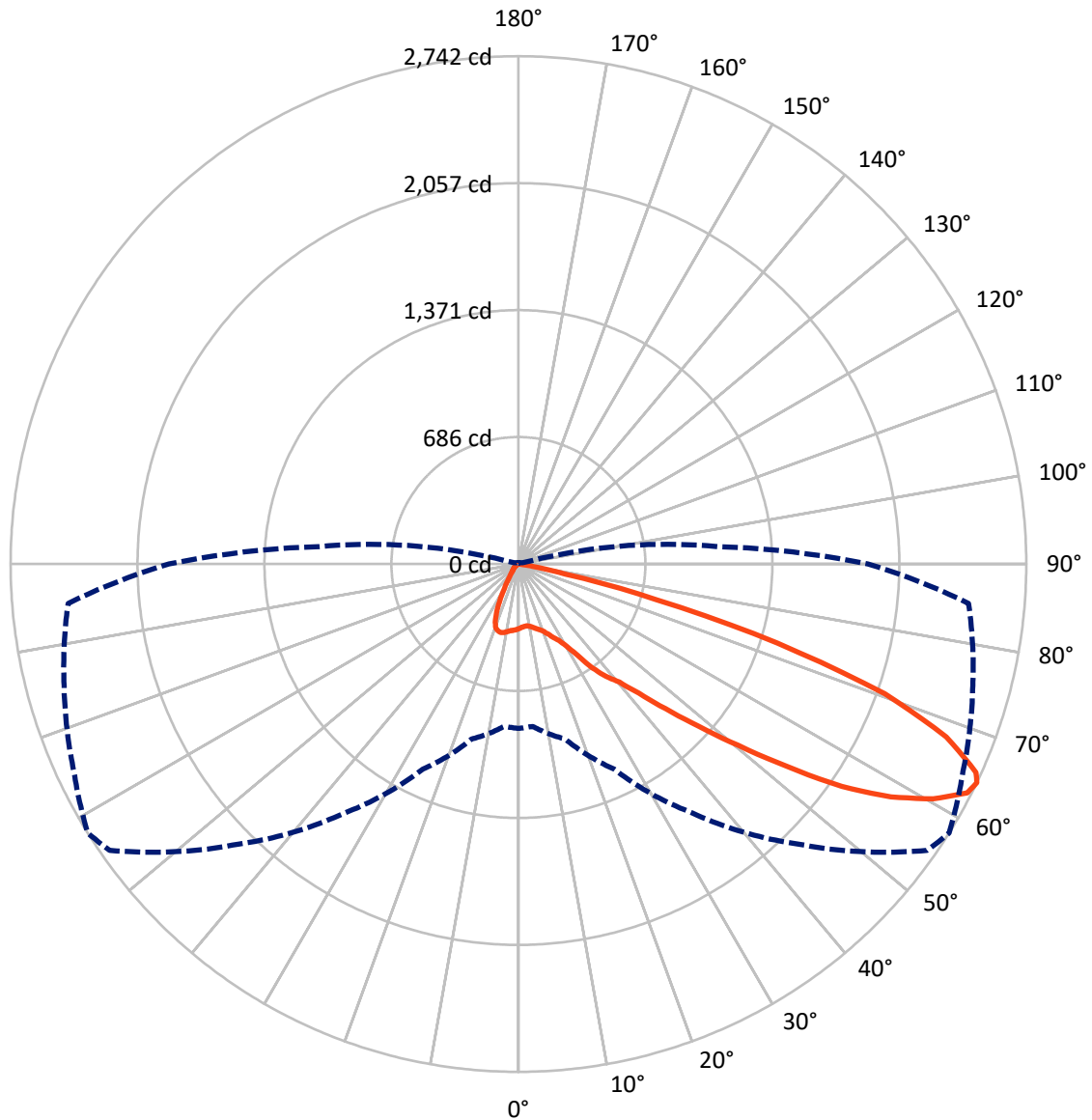


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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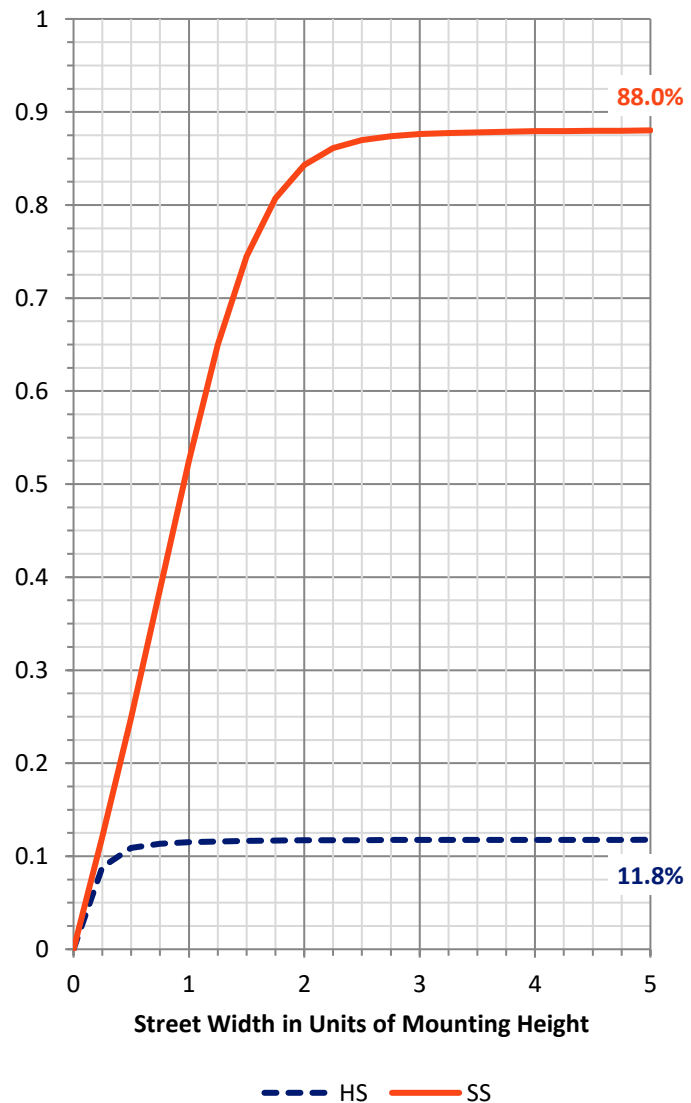
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	388.2	0.0	388.2
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	2867.8	0.0	2867.8
	% Fixture	88.1	0.0	88.1
Total	Lumens	3256.0	0.0	3256.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	1.0
10°-20°	96.1	3.0
20°-30°	172.6	5.3
30°-40°	302.6	9.3
40°-50°	553.3	17.0
50°-60°	946.5	29.1
60°-70°	918.1	28.2
70°-80°	227.4	7.0
80°-90°	6.5	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°	3256.0	100.0
0°-180°	3256.0	100.0



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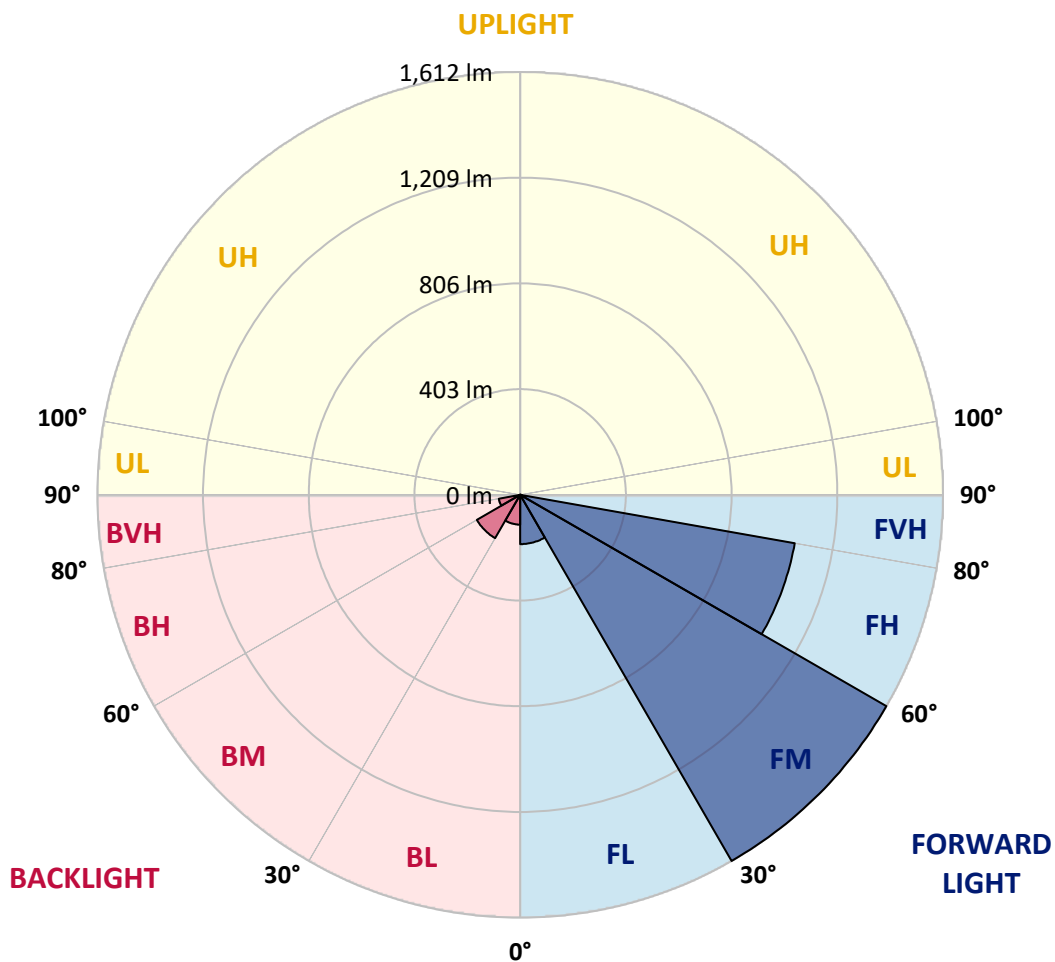
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	188.0	5.8			
FM	(30°-60°)	1611.7	49.5			
FH	(60°-80°)	1062.7	32.6			G1/1800
FVH	(80°-90°)	5.5	0.2			G0/10
BL	(0°-30°)	113.7	3.5	B1/500		
BM	(30°-60°)	190.7	5.9	B0/220		
BH	(60°-80°)	82.9	2.5	B0/110		G0/110
BVH	(80°-90°)	1.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8
2.5°	334.3	334.3	335.5	336.1	337.9	339.7	342.1	342.7	344.0	347.0	348.2
5°	316.2	316.8	318.1	321.1	325.3	330.1	336.1	337.9	342.7	348.8	353.0
7.5°	309.0	309.6	311.4	315.0	320.5	327.7	334.9	337.3	344.0	353.6	359.6
10°	307.8	307.8	310.2	315.6	322.3	331.3	339.1	342.1	351.2	362.6	372.3
12.5°	307.8	307.8	310.8	317.4	325.3	336.7	347.6	351.8	362.0	376.5	388.5
15°	313.2	314.4	316.2	320.5	329.5	342.1	357.2	362.0	374.7	392.1	407.2
17.5°	351.8	350.6	344.6	339.1	337.3	348.2	366.2	372.9	391.5	413.8	430.1
20°	426.5	425.9	415.0	388.5	365.0	359.0	380.1	387.9	415.0	444.5	456.6
22.5°	516.8	519.8	503.0	467.4	419.2	388.5	400.6	411.4	446.4	481.9	489.1
25°	606.6	610.2	594.5	550.0	490.9	437.3	428.9	438.5	478.3	513.8	510.8
27.5°	712.6	709.6	693.9	643.3	574.7	503.0	466.8	468.6	499.4	539.1	529.5
30°	790.3	786.1	771.0	736.7	672.2	590.3	521.0	515.6	524.7	568.6	558.4
32.5°	861.4	864.4	853.0	807.2	746.3	680.1	602.4	587.9	584.3	621.6	604.8
35°	931.9	931.3	927.0	886.7	827.1	764.4	699.4	689.1	687.9	724.0	678.3
37.5°	1016.2	1012.0	1004.1	963.2	915.6	856.0	786.7	770.4	767.4	774.6	721.0
40°	1106.6	1112.0	1099.3	1056.6	1004.8	960.2	863.2	838.5	818.0	839.1	804.8
42.5°	1240.9	1245.1	1222.8	1193.3	1126.4	1084.9	986.7	952.9	943.3	975.2	936.7
45°	1409.5	1401.7	1386.7	1366.2	1310.8	1247.5	1145.1	1113.2	1102.9	1157.8	1094.5
47.5°	1540.9	1539.7	1540.3	1536.0	1527.6	1451.7	1330.0	1308.3	1298.1	1377.0	1307.1
50°	1624.0	1628.8	1649.3	1701.7	1740.2	1708.3	1565.6	1539.1	1531.2	1613.1	1518.6
52.5°	1686.6	1698.1	1732.4	1836.0	1959.5	1970.3	1852.3	1814.9	1796.9	1819.8	1688.4
55°	1718.6	1724.0	1776.4	1929.4	2122.7	2200.5	2151.1	2119.7	2046.8	2003.5	1887.8
57.5°	1643.9	1635.4	1725.8	1920.4	2207.1	2386.0	2407.1	2371.5	2254.7	2220.9	2130.0
60°	1448.1	1444.5	1546.3	1780.0	2133.6	2429.4	2596.8	2574.5	2467.3	2387.2	2301.7
62.5°	1104.7	1110.8	1218.6	1456.5	1871.6	2304.7	2702.2	2720.3	2606.4	2487.2	2428.8
64°	887.3	880.1	978.8	1221.0	1642.1	2138.4	2694.4	2742.0	2648.6	2539.6	2440.2
65°	745.1	729.5	824.0	1043.3	1448.1	2017.9	2639.0	2715.5	2651.6	2552.2	2398.6
67.5°	392.1	400.6	440.9	633.7	977.6	1525.8	2376.3	2492.0	2517.9	2379.4	2090.2
70°	175.9	177.1	203.0	323.5	540.9	989.7	1911.3	2098.7	2113.1	1954.7	1514.4
72.5°	58.4	59.0	89.8	129.5	227.1	458.4	1290.9	1461.3	1492.7	1267.4	821.6
75°	36.1	37.3	47.6	69.9	105.4	160.2	654.2	769.8	776.5	562.0	298.8
77.5°	22.9	24.1	28.9	41.6	57.8	60.8	214.4	259.6	294.0	202.4	92.8
80°	14.5	14.5	18.7	25.3	30.1	25.9	58.4	77.1	92.8	68.1	31.3
82.5°	5.4	5.4	9.6	13.9	12.6	9.0	15.7	20.5	35.5	33.7	15.1
85°	0.0	0.0	0.6	1.2	0.6	1.2	3.0	4.2	6.6	9.6	4.8
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.2	1.2	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°	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8	348.8
2.5°	350.0	351.2	353.6	354.2	354.8	353.0	354.8	353.0	354.2	354.2	354.2
5°	355.4	357.2	359.0	359.6	359.0	354.8	356.0	353.0	352.4	352.4	352.4
7.5°	362.6	364.4	367.4	365.6	362.0	356.0	355.4	351.2	349.4	349.4	350.0
10°	375.9	377.7	378.9	375.3	368.0	359.0	352.4	343.4	339.1	337.3	337.3
12.5°	392.7	394.6	393.9	387.9	374.7	356.0	337.3	319.9	307.2	302.4	297.6
15°	410.8	413.2	412.0	399.4	374.1	340.9	304.8	263.8	238.5	222.3	219.3
17.5°	431.9	434.3	428.3	405.4	365.0	309.0	240.3	184.9	148.2	134.3	133.7
20°	457.8	456.6	442.1	406.0	348.8	250.0	160.8	115.7	100.0	96.4	95.8
22.5°	487.3	481.9	455.4	402.4	304.2	169.9	103.6	91.6	89.8	88.5	88.5
25°	504.2	494.5	460.2	392.1	234.3	108.4	87.9	85.5	83.1	80.7	80.1
27.5°	517.4	503.0	462.0	358.4	156.0	83.1	79.5	77.1	73.5	69.9	69.3
30°	541.5	519.8	465.0	299.4	95.8	71.1	69.3	65.1	59.6	56.0	54.8
32.5°	584.9	553.6	477.1	224.1	69.9	62.6	57.8	52.4	46.4	42.8	42.8
35°	631.3	585.5	483.1	147.6	60.8	54.8	47.6	41.0	35.5	32.5	31.9
37.5°	674.1	631.3	481.3	90.4	54.2	47.0	39.2	32.5	27.7	25.3	25.3
40°	761.4	711.4	456.6	62.0	47.6	39.8	31.9	25.3	22.3	20.5	20.5
42.5°	886.1	799.3	401.8	53.0	41.6	33.1	25.3	21.1	18.7	16.9	16.9
45°	1025.8	896.3	320.5	47.6	36.1	27.7	21.1	17.5	15.1	14.5	14.5
47.5°	1209.0	1013.8	235.5	42.8	31.3	23.5	17.5	14.5	13.3	12.6	12.6
50°	1369.2	1109.0	160.8	37.3	27.7	19.9	15.1	13.3	12.0	11.4	11.4
52.5°	1515.0	1175.2	106.0	32.5	24.7	16.3	13.9	12.0	11.4	10.8	10.8
55°	1686.6	1225.8	71.7	28.3	21.7	15.1	13.3	12.0	10.8	10.8	10.2
57.5°	1832.4	1255.9	51.2	24.1	19.3	13.9	12.6	11.4	10.2	9.6	9.6
60°	1917.3	1220.4	37.3	21.1	16.9	12.6	11.4	10.2	9.6	9.0	9.0
62.5°	1940.8	1151.7	28.9	18.1	14.5	11.4	10.2	9.0	8.4	7.8	7.8
64°	1886.6	1078.2	24.7	15.7	12.6	10.2	9.6	8.4	7.2	6.0	6.0
65°	1810.1	1010.2	22.3	14.5	11.4	9.6	9.0	7.8	6.0	4.8	4.8
67.5°	1508.3	805.4	18.1	12.0	9.0	8.4	7.2	6.0	4.2	3.0	3.0
70°	1071.0	563.2	13.9	9.6	7.8	7.8	6.6	4.8	2.4	1.2	1.2
72.5°	566.8	292.8	11.4	7.8	6.0	6.0	5.4	3.0	1.8	1.2	0.6
75°	198.2	96.4	9.6	6.6	5.4	4.2	3.6	2.4	1.8	1.2	0.6
77.5°	60.2	31.9	8.4	6.6	4.8	3.6	4.2	3.6	3.6	2.4	1.8
80°	19.3	11.4	4.8	4.2	4.8	4.8	4.2	3.6	4.2	3.0	2.4
82.5°	7.2	4.2	1.8	2.4	2.4	3.0	3.0	2.4	1.8	0.6	0.0
85°	2.4	1.8	1.2	1.8	1.8	1.8	1.2	1.2	0.6	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	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)