

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: P401195

Luminaire Tested: **ENT-SA1B-760-U-T4W-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401195
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-SA1B-760-U-T4W-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 5700K, 450mA 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: 2556 lumens
Efficiency: N/A
Efficacy: 100.6 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

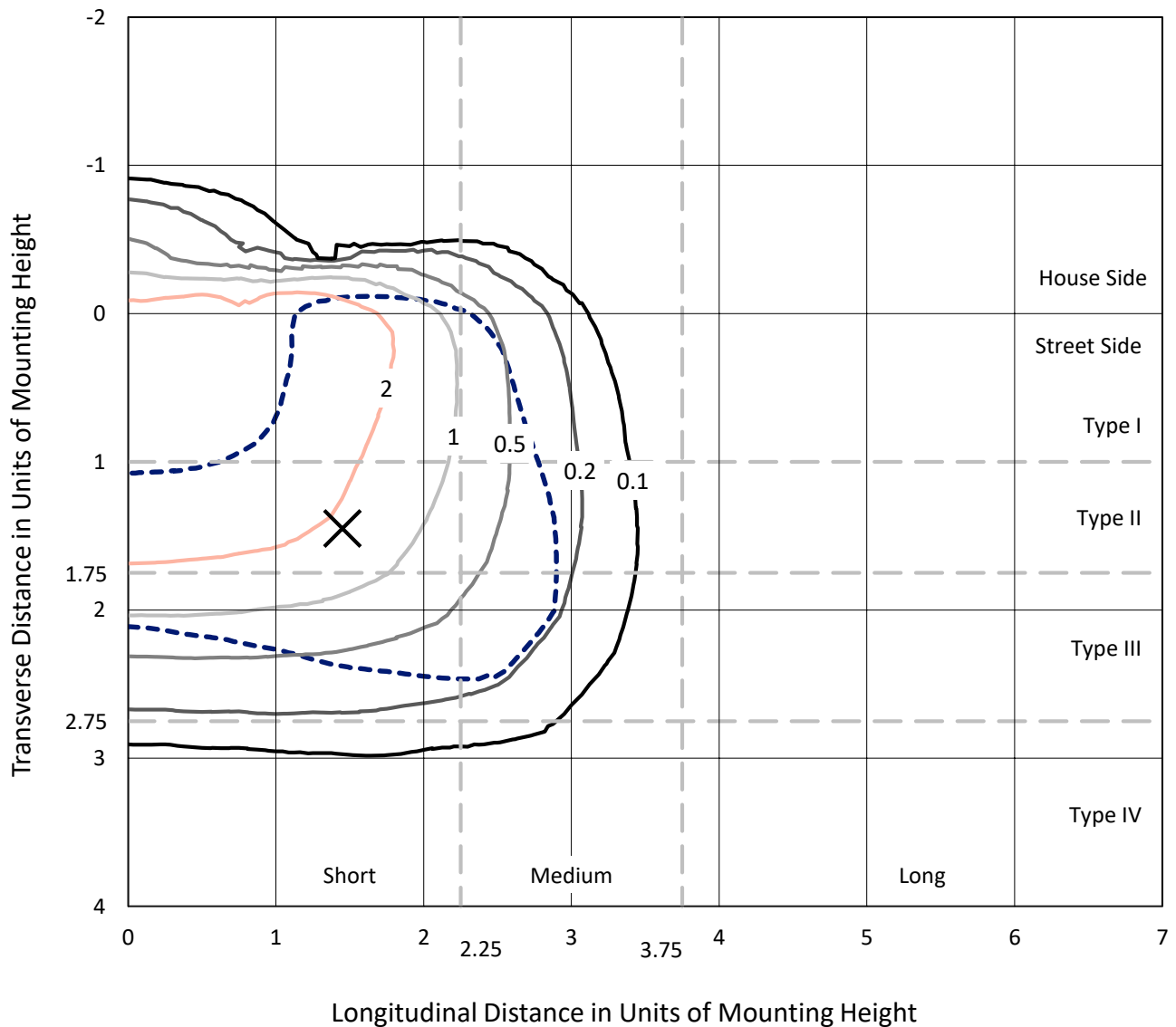
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

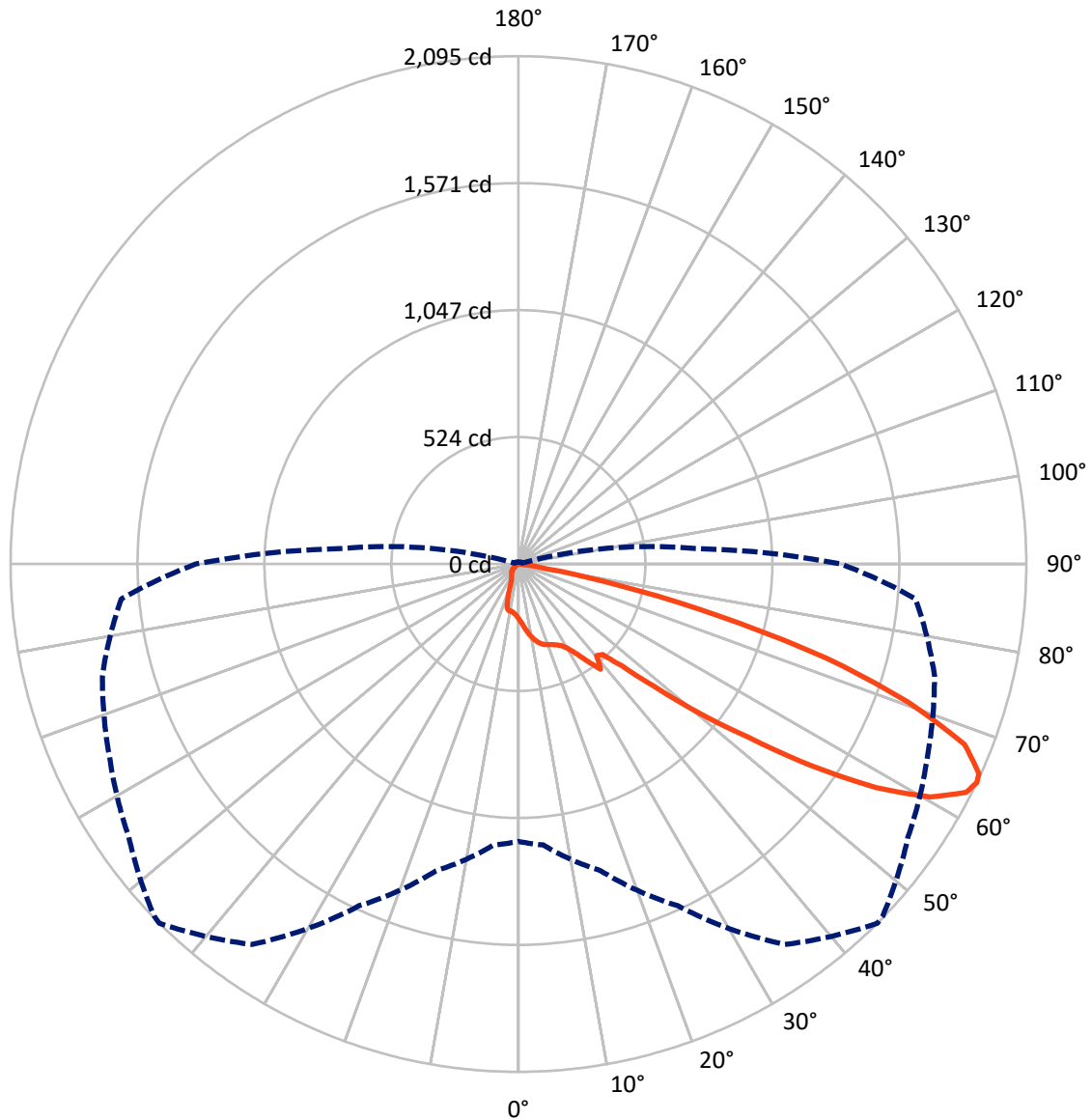
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 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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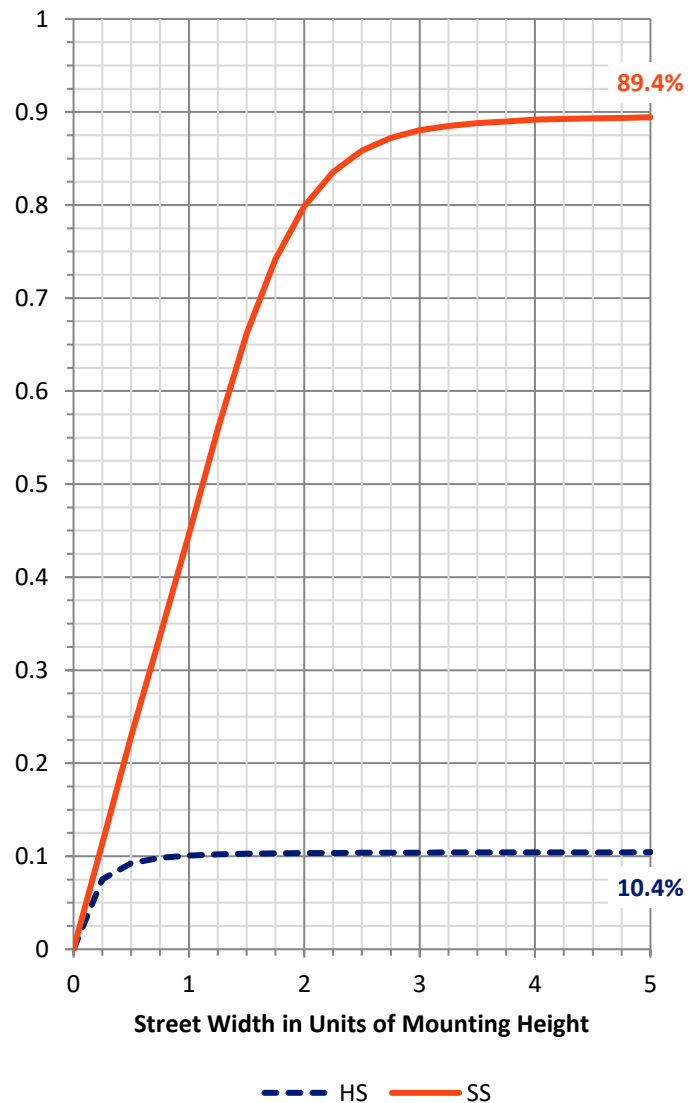
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	269.7	0.0	269.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2286.3	0.0	2286.3
	% Fixture	89.4	0.0	89.4
Total	Lumens	2556.0	0.0	2556.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	0.9
10°-20°	71.6	2.8
20°-30°	116.6	4.6
30°-40°	185.3	7.2
40°-50°	352.9	13.8
50°-60°	727.3	28.5
60°-70°	812.3	31.8
70°-80°	256.5	10.0
80°-90°	10.4	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°	2556.0	100.0
0°-180°	2556.0	100.0



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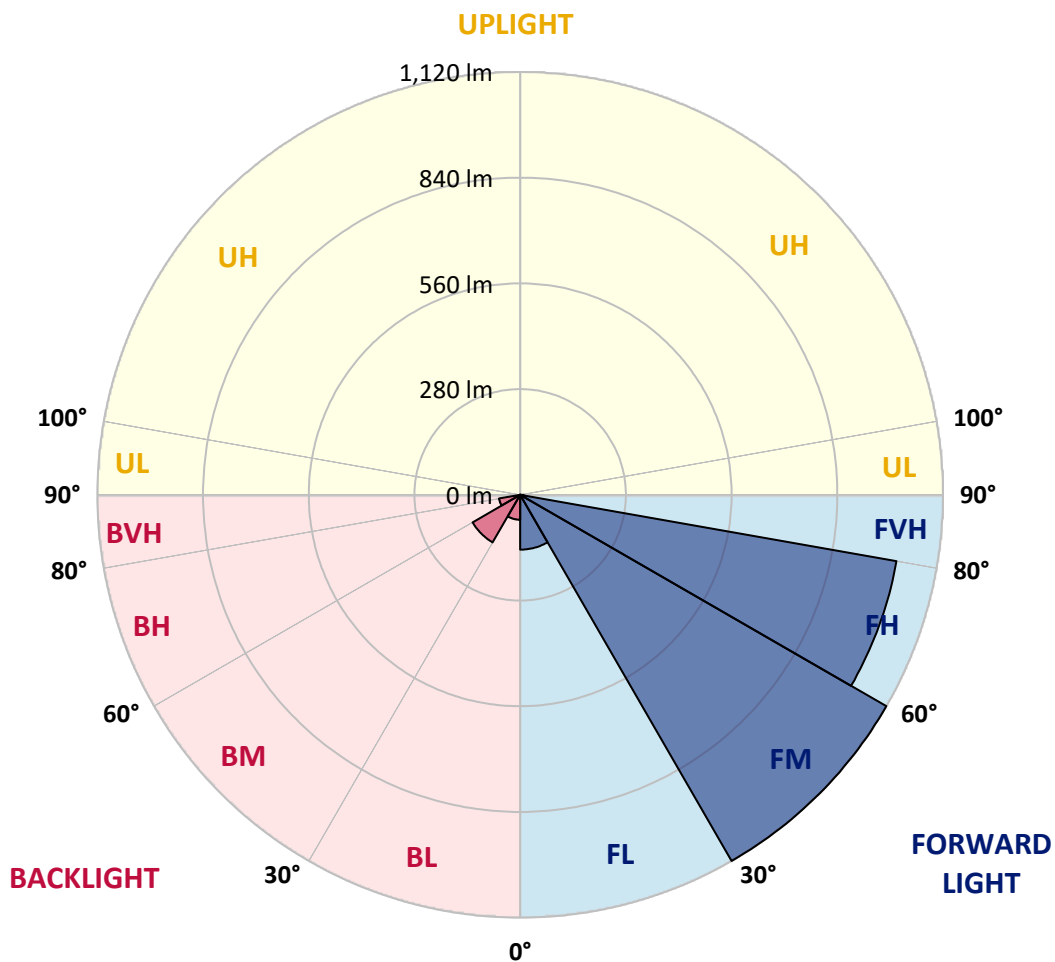
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.2	5.7			
FM	(30°-60°)	1119.9	43.8			
FH	(60°-80°)	1012.0	39.6			G1/1800
FVH	(80°-90°)	9.2	0.4			G0/10
BL	(0°-30°)	66.1	2.6	B0/110		
BM	(30°-60°)	145.6	5.7	B0/220		
BH	(60°-80°)	56.8	2.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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°	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6
2.5°	249.9	250.9	249.5	247.5	245.6	242.1	242.6	238.3	234.8	232.4	228.5
5°	281.6	281.1	278.2	273.8	269.4	263.1	262.1	255.3	248.0	240.2	232.9
7.5°	313.8	312.3	309.4	303.5	295.3	287.0	284.5	274.8	264.1	252.4	239.7
10°	340.1	339.1	335.7	329.4	319.6	306.9	306.9	293.3	279.2	265.0	249.9
12.5°	361.5	360.5	356.6	348.8	337.2	325.9	324.5	312.3	296.7	280.2	261.6
15°	374.7	373.7	369.3	360.5	350.3	340.1	338.6	326.9	312.8	293.8	272.4
17.5°	378.1	377.1	373.7	365.9	358.1	349.3	347.4	337.2	325.0	305.5	283.6
20°	376.6	374.7	372.7	366.4	360.1	354.2	353.2	345.9	335.2	318.6	295.3
22.5°	372.7	370.8	369.3	364.9	361.5	361.0	360.1	355.7	348.8	334.7	312.8
25°	371.3	369.8	368.3	365.4	364.9	369.8	369.3	368.8	365.9	353.7	330.8
27.5°	379.5	379.1	375.6	370.8	373.2	381.5	382.0	384.4	382.5	374.7	357.1
30°	408.8	406.3	398.5	387.8	394.2	404.9	406.8	414.6	415.1	416.1	392.2
32.5°	448.2	444.3	431.2	417.5	421.4	441.4	441.9	454.1	479.9	463.8	411.2
35°	475.5	470.7	450.7	443.4	462.9	494.5	498.9	523.8	525.7	467.2	409.8
37.5°	552.0	544.7	508.2	463.8	482.8	551.0	555.9	551.5	510.6	462.4	430.7
40°	654.3	647.5	614.9	540.3	486.7	497.0	499.4	512.6	520.3	496.5	497.9
42.5°	787.3	778.6	745.0	653.8	547.6	510.1	515.0	541.8	592.9	604.2	661.6
45°	923.3	918.4	884.3	785.9	658.7	599.8	602.2	634.8	726.4	797.1	845.8
47.5°	1056.3	1057.3	1028.0	944.7	820.5	755.2	752.3	794.7	910.6	960.8	1010.5
50°	1243.9	1242.9	1190.8	1139.1	1042.2	964.7	959.8	983.7	1095.3	1113.8	1190.8
52.5°	1457.3	1456.3	1377.9	1353.5	1312.6	1187.8	1201.0	1180.5	1260.9	1294.1	1403.2
55°	1558.6	1549.8	1516.7	1547.4	1596.1	1470.9	1469.0	1391.0	1453.9	1482.1	1583.9
57.5°	1548.4	1551.8	1583.5	1685.3	1845.1	1740.3	1743.3	1598.6	1635.1	1652.6	1727.2
60°	1490.4	1492.8	1566.4	1736.0	1969.3	1951.3	1941.1	1792.5	1768.6	1761.3	1796.9
62.5°	1324.7	1325.7	1445.1	1662.9	1968.4	2073.1	2063.4	1928.9	1854.4	1807.6	1742.8
64°	1144.5	1163.0	1309.2	1555.2	1915.3	2094.6	2089.2	1962.0	1862.2	1776.4	1643.4
65°	996.4	1024.1	1201.0	1459.7	1855.3	2087.2	2080.9	1956.2	1851.4	1717.9	1540.6
67.5°	679.7	694.3	853.1	1148.9	1626.8	1984.4	1982.5	1881.2	1735.0	1484.1	1208.8
70°	401.0	411.7	529.1	802.0	1250.2	1704.8	1730.6	1694.1	1440.2	1066.0	769.8
72.5°	124.7	131.1	233.4	445.3	819.5	1328.2	1361.8	1335.5	1048.5	666.0	426.8
75°	46.8	48.7	77.0	193.4	407.8	849.2	859.5	890.1	638.7	351.8	186.6
77.5°	25.8	26.3	38.0	72.6	179.3	417.1	426.8	422.9	339.6	166.1	59.4
80°	12.7	13.2	18.5	32.2	69.7	117.9	139.8	184.7	119.9	81.9	19.0
82.5°	4.4	3.9	8.3	14.6	23.4	31.7	35.6	51.2	50.2	44.8	6.8
85°	0.0	0.0	0.5	0.5	0.5	1.0	1.0	6.3	12.7	14.6	1.9
87.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
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°	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6	226.6
2.5°	226.6	225.6	222.2	218.8	216.3	213.4	212.9	211.0	210.5	210.5	210.5
5°	229.0	226.1	219.7	214.4	209.5	205.1	203.2	201.2	199.8	199.3	199.3
7.5°	234.4	230.0	219.7	211.9	204.6	199.3	196.3	194.4	192.9	192.9	192.9
10°	242.1	235.3	222.7	211.9	203.2	196.3	192.0	189.0	187.1	186.6	187.1
12.5°	251.9	243.1	227.5	214.4	204.1	195.4	186.1	169.1	157.9	151.5	150.6
15°	261.1	250.9	232.9	217.8	205.6	186.1	152.5	126.2	108.6	103.3	102.3
17.5°	271.4	260.7	240.2	222.7	200.2	150.1	108.6	86.7	83.3	84.3	84.3
20°	284.0	271.4	248.0	227.5	172.5	106.7	79.4	76.5	77.5	79.4	79.4
22.5°	298.7	285.0	258.7	224.6	131.5	78.0	72.6	73.1	74.1	76.0	76.0
25°	317.7	303.5	270.4	202.7	91.6	68.2	68.7	69.2	70.6	72.6	73.1
27.5°	345.9	328.9	284.5	170.0	69.2	63.3	63.8	65.3	66.7	69.2	69.2
30°	376.1	355.2	297.2	131.1	60.4	58.0	58.5	59.9	62.4	64.3	65.3
32.5°	389.3	370.8	299.6	89.6	56.0	53.6	52.6	54.1	56.0	58.0	58.5
35°	396.6	388.8	287.9	64.8	52.6	49.7	47.7	47.3	47.7	49.2	49.2
37.5°	432.7	427.3	264.6	55.5	49.2	46.3	43.4	40.9	40.0	39.5	40.0
40°	501.8	490.1	233.9	51.2	46.3	42.9	39.0	35.1	31.7	30.2	30.2
42.5°	654.3	595.4	190.0	48.2	43.4	39.5	33.6	28.3	24.4	23.4	23.4
45°	818.5	726.0	142.8	45.8	40.4	35.6	28.3	22.4	19.0	18.0	18.0
47.5°	976.4	822.4	99.9	42.9	37.0	31.2	23.4	18.0	15.6	15.1	15.1
50°	1142.0	906.2	69.7	39.5	33.6	26.8	19.0	14.6	13.2	13.2	13.2
52.5°	1303.3	968.1	51.2	36.1	29.2	22.4	16.1	13.2	12.2	12.2	12.2
55°	1425.1	992.0	39.0	31.7	24.8	19.0	14.6	12.7	11.7	11.2	11.2
57.5°	1506.5	972.0	31.7	26.3	21.0	16.6	13.2	11.7	10.7	10.2	10.2
60°	1504.5	905.7	25.3	21.4	17.1	14.1	12.2	10.7	9.7	9.3	9.3
62.5°	1416.3	798.1	20.0	17.1	14.1	12.2	10.7	9.7	8.8	8.3	7.8
64°	1330.1	731.3	17.1	14.6	12.7	11.2	9.7	8.8	7.8	6.8	6.8
65°	1236.6	668.0	15.6	13.2	11.2	10.2	9.3	8.3	6.8	5.8	5.8
67.5°	940.3	494.5	12.7	10.2	8.8	8.3	7.3	6.3	4.9	3.9	3.9
70°	610.5	320.1	10.7	8.3	7.3	7.3	6.8	5.4	3.9	3.4	2.9
72.5°	312.8	159.3	8.8	6.8	6.3	6.3	5.8	4.4	3.4	2.9	2.4
75°	132.5	64.8	7.3	5.8	5.4	4.9	4.4	3.9	2.9	2.4	2.4
77.5°	46.3	24.4	6.8	5.8	4.4	3.9	3.9	3.9	3.9	3.4	2.9
80°	15.6	9.3	4.4	4.4	4.9	5.4	5.4	4.9	5.4	4.4	3.4
82.5°	6.3	3.4	1.5	1.9	3.4	3.9	4.4	4.4	4.4	3.4	2.9
85°	1.5	1.0	1.0	1.5	1.5	1.9	1.9	2.4	2.4	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.5	1.5	1.5
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)