

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: P401191

Luminaire Tested: **ENT-SA1B-760-U-T3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401191
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: ENT-SA1B-760-U-T3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 5700K, 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: 2634 lumens
Efficiency: N/A
Efficacy: 103.7 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

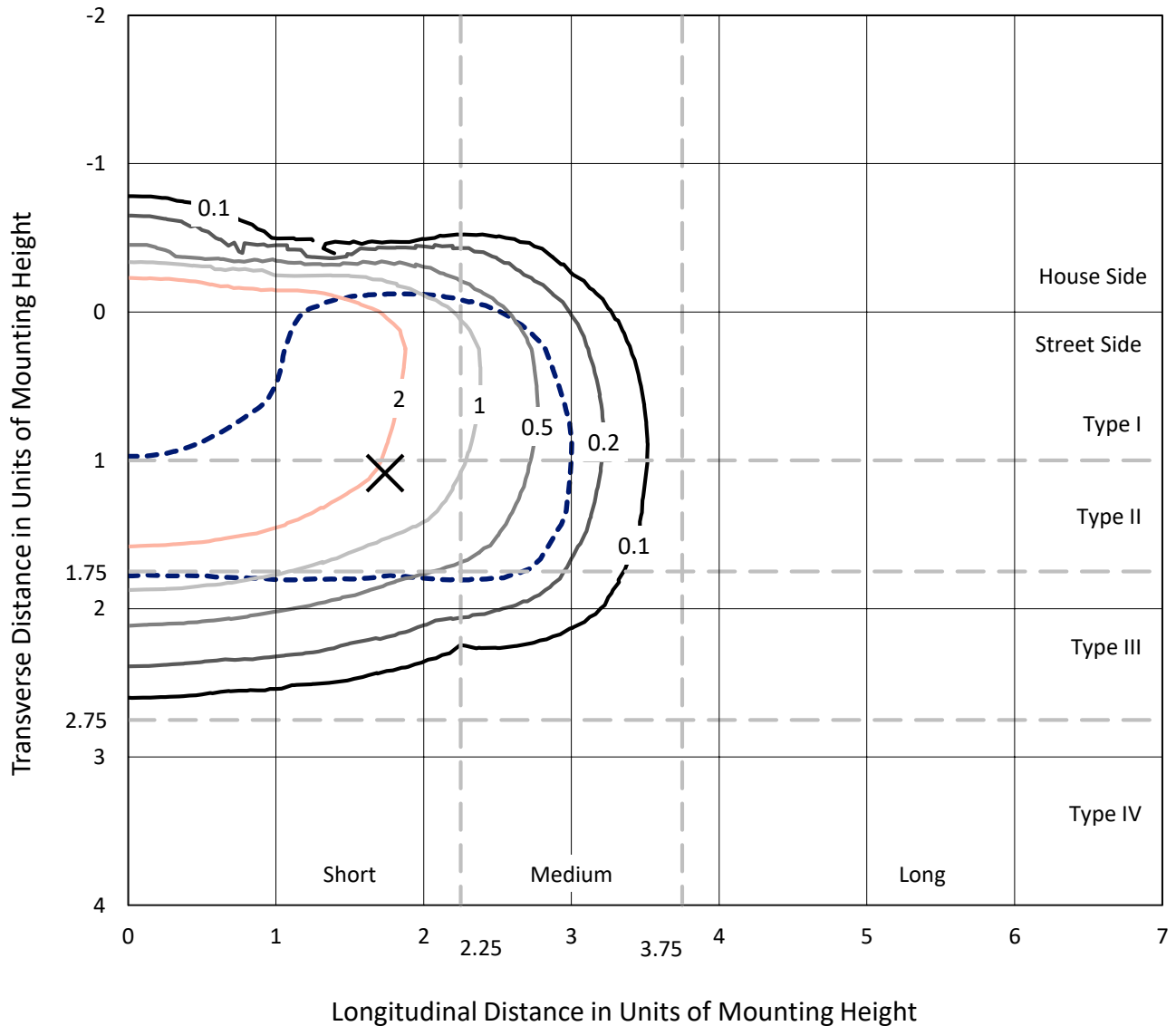
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

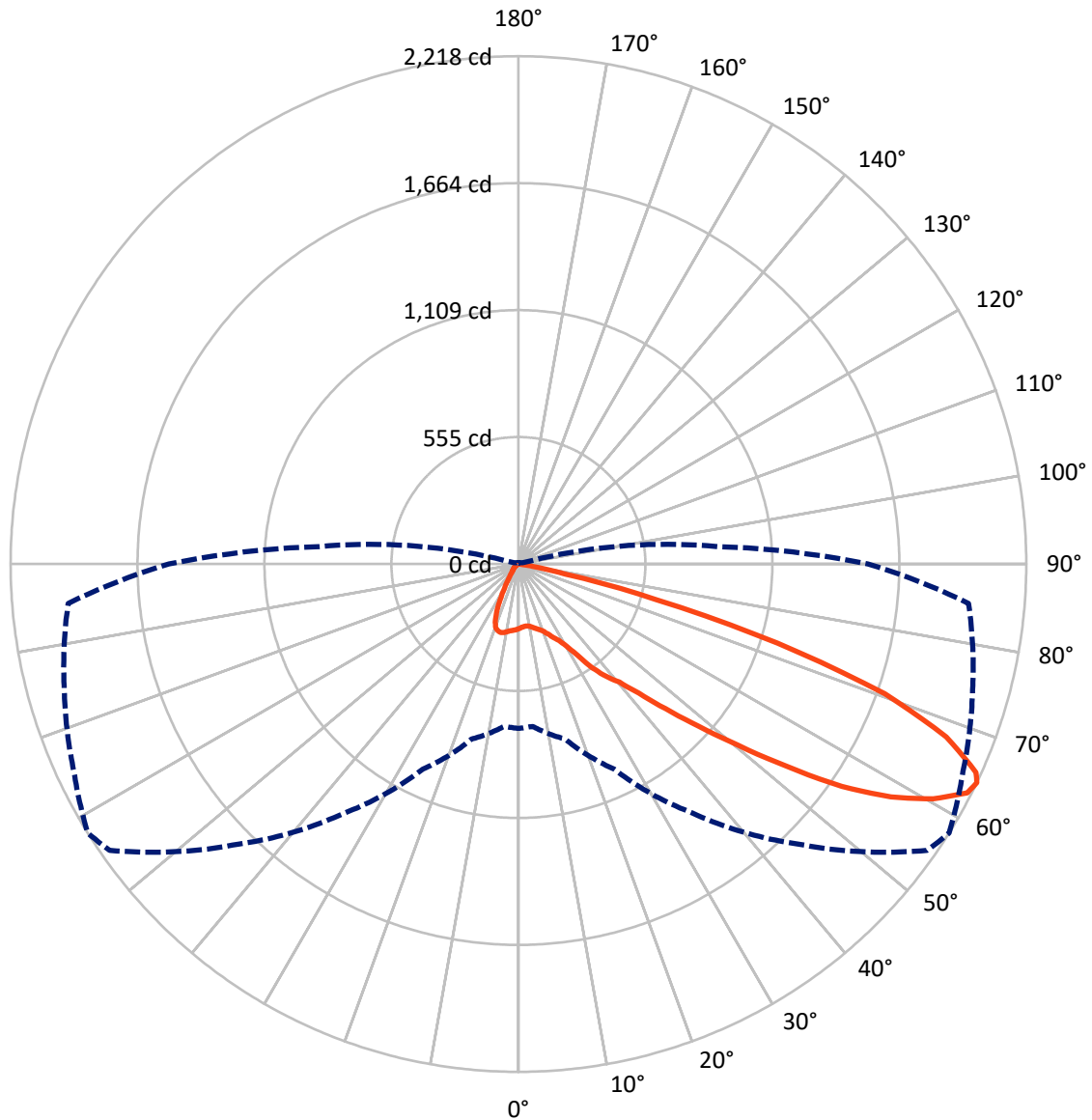


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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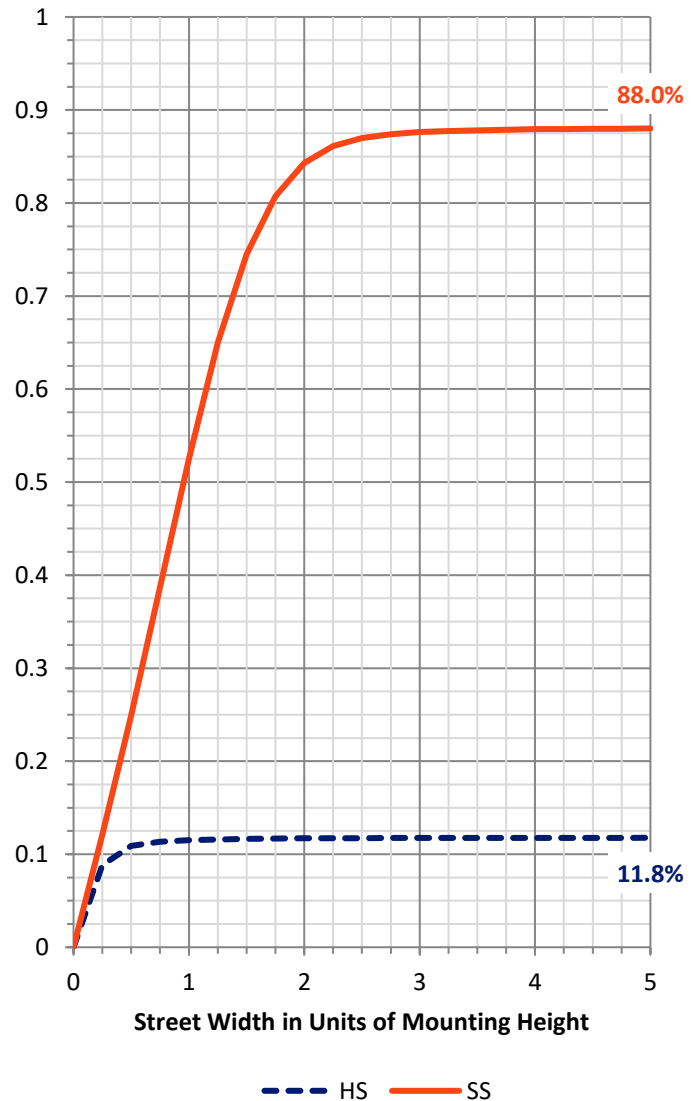
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	314.0	0.0	314.0
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	2320.0	0.0	2320.0
	% Fixture	88.1	0.0	88.1
Total	Lumens	2634.0	0.0	2634.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.7	1.0
10°-20°	77.7	3.0
20°-30°	139.6	5.3
30°-40°	244.8	9.3
40°-50°	447.6	17.0
50°-60°	765.7	29.1
60°-70°	742.7	28.2
70°-80°	184.0	7.0
80°-90°	5.2	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°	2634.0	100.0
0°-180°	2634.0	100.0



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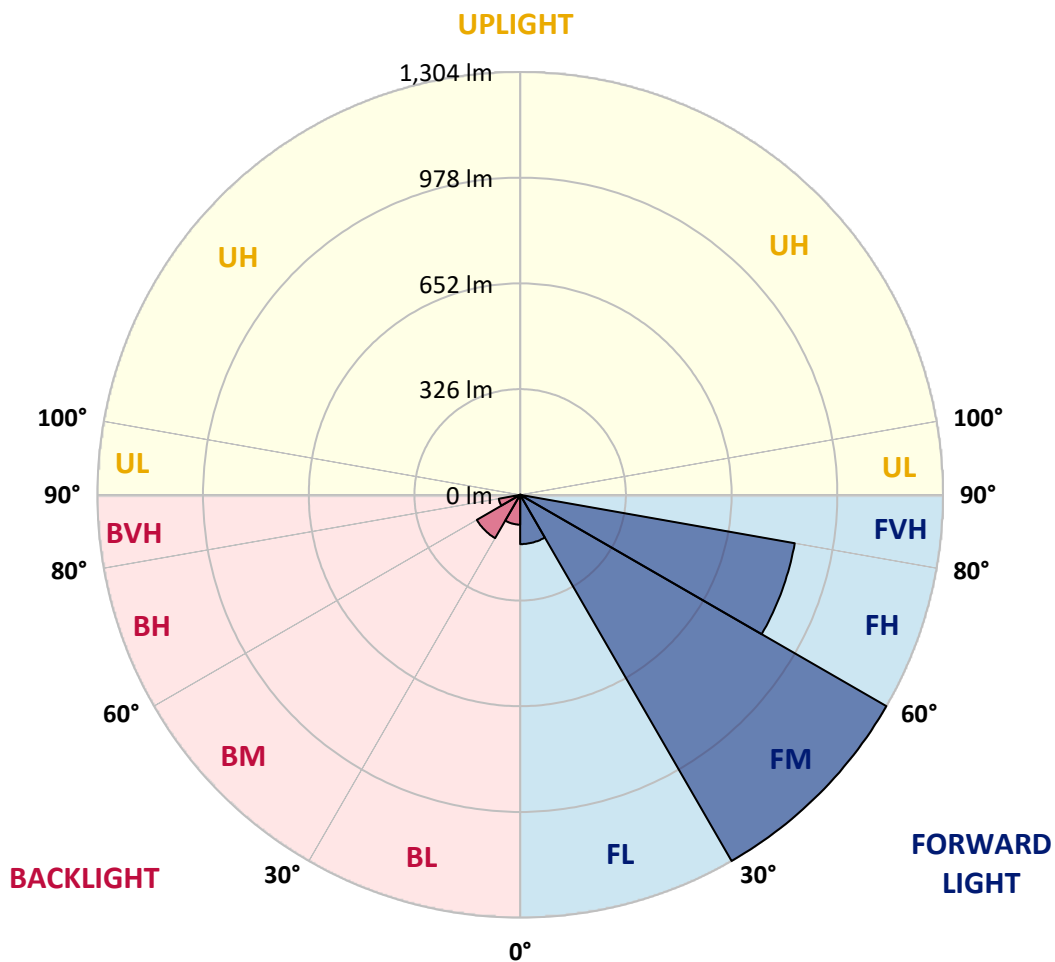
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.1	5.8			
FM (30°-60°)	1303.8	49.5			
FH (60°-80°)	859.7	32.6			G1/1800
FVH (80°-90°)	4.5	0.2			G0/10
BL (0°-30°)	91.9	3.5	B0/110		
BM (30°-60°)	154.2	5.9	B0/220		
BH (60°-80°)	67.1	2.5	B0/110		G0/110
BVH (80°-90°)	0.8	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°	282.1	282.1	282.1	282.1	282.1	282.1	282.1	282.1	282.1	282.1	282.1
2.5°	270.4	270.4	271.4	271.9	273.4	274.8	276.8	277.3	278.2	280.7	281.7
5°	255.8	256.3	257.3	259.7	263.1	267.0	271.9	273.4	277.3	282.1	285.6
7.5°	250.0	250.5	251.9	254.9	259.2	265.1	270.9	272.9	278.2	286.0	290.9
10°	249.0	249.0	251.0	255.3	260.7	268.0	274.3	276.8	284.1	293.4	301.1
12.5°	249.0	249.0	251.4	256.8	263.1	272.4	281.2	284.6	292.9	304.6	314.3
15°	253.4	254.4	255.8	259.2	266.6	276.8	289.0	292.9	303.1	317.2	329.4
17.5°	284.6	283.6	278.7	274.3	272.9	281.7	296.3	301.6	316.7	334.8	347.9
20°	345.0	344.5	335.7	314.3	295.3	290.4	307.5	313.8	335.7	359.6	369.4
22.5°	418.1	420.5	406.9	378.1	339.2	314.3	324.1	332.8	361.1	389.8	395.7
25°	490.7	493.6	481.0	444.9	397.1	353.8	347.0	354.8	386.9	415.7	413.2
27.5°	576.5	574.0	561.4	520.4	464.9	406.9	377.7	379.1	404.0	436.1	428.3
30°	639.3	635.9	623.7	596.0	543.8	477.6	421.5	417.1	424.4	460.0	451.7
32.5°	696.8	699.3	690.0	653.0	603.8	550.2	487.3	475.6	472.7	502.9	489.2
35°	753.8	753.4	750.0	717.3	669.1	618.4	565.8	557.5	556.5	585.7	548.7
37.5°	822.1	818.7	812.3	779.2	740.7	692.4	636.4	623.3	620.8	626.7	583.3
40°	895.2	899.6	889.3	854.7	812.8	776.8	698.3	678.3	661.7	678.8	651.0
42.5°	1003.8	1007.2	989.2	965.3	911.2	877.6	798.2	770.9	763.1	788.9	757.7
45°	1140.3	1133.9	1121.8	1105.2	1060.4	1009.2	926.4	900.5	892.2	936.6	885.4
47.5°	1246.5	1245.5	1246.0	1242.6	1235.8	1174.4	1076.0	1058.4	1050.1	1114.0	1057.4
50°	1313.8	1317.7	1334.2	1376.6	1407.8	1382.0	1266.5	1245.0	1238.7	1305.0	1228.5
52.5°	1364.4	1373.7	1401.5	1485.3	1585.2	1593.9	1498.4	1468.2	1453.6	1472.1	1365.9
55°	1390.3	1394.6	1437.0	1560.8	1717.2	1780.1	1740.1	1714.8	1655.8	1620.8	1527.2
57.5°	1329.8	1323.0	1396.1	1553.5	1785.5	1930.2	1947.2	1918.5	1824.0	1796.7	1723.1
60°	1171.5	1168.5	1250.9	1440.0	1726.0	1965.3	2100.7	2082.7	1996.0	1931.2	1862.0
62.5°	893.7	898.6	985.8	1178.3	1514.0	1864.4	2186.0	2200.6	2108.5	2012.0	1964.8
64°	717.8	711.9	791.9	987.8	1328.4	1729.9	2179.7	2218.2	2142.6	2054.4	1974.0
65°	602.8	590.1	666.6	844.0	1171.5	1632.4	2134.8	2196.7	2145.1	2064.7	1940.4
67.5°	317.2	324.1	356.7	512.6	790.9	1234.3	1922.4	2015.9	2036.9	1924.8	1690.9
70°	142.3	143.3	164.2	261.7	437.6	800.6	1546.2	1697.7	1709.4	1581.3	1225.1
72.5°	47.3	47.8	72.6	104.8	183.7	370.8	1044.3	1182.2	1207.5	1025.3	664.7
75°	29.2	30.2	38.5	56.5	85.3	129.6	529.2	622.8	628.1	454.6	241.7
77.5°	18.5	19.5	23.4	33.6	46.8	49.2	173.5	210.0	237.8	163.7	75.0
80°	11.7	11.7	15.1	20.5	24.4	21.0	47.3	62.4	75.0	55.1	25.3
82.5°	4.4	4.4	7.8	11.2	10.2	7.3	12.7	16.6	28.8	27.3	12.2
85°	0.0	0.0	0.5	1.0	0.5	1.0	2.4	3.4	5.4	7.8	3.9
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	1.0	1.0	1.0	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°	282.1	282.1	282.1	282.1	282.1	282.1	282.1	282.1	282.1	282.1	282.1
2.5°	283.1	284.1	286.0	286.5	287.0	285.6	287.0	285.6	286.5	286.5	286.5
5°	287.5	289.0	290.4	290.9	290.4	287.0	288.0	285.6	285.1	285.1	285.1
7.5°	293.4	294.8	297.3	295.8	292.9	288.0	287.5	284.1	282.6	282.6	283.1
10°	304.1	305.5	306.5	303.6	297.7	290.4	285.1	277.8	274.3	272.9	272.9
12.5°	317.7	319.2	318.7	313.8	303.1	288.0	272.9	258.8	248.5	244.6	240.7
15°	332.3	334.3	333.3	323.1	302.6	275.8	246.6	213.4	193.0	179.8	177.4
17.5°	349.4	351.3	346.5	328.0	295.3	250.0	194.4	149.6	119.9	108.7	108.2
20°	370.3	369.4	357.7	328.4	282.1	202.2	130.1	93.6	80.9	78.0	77.5
22.5°	394.2	389.8	368.4	325.5	246.1	137.4	83.8	74.1	72.6	71.6	71.6
25°	407.9	400.1	372.3	317.2	189.6	87.7	71.1	69.2	67.2	65.3	64.8
27.5°	418.6	406.9	373.8	289.9	126.2	67.2	64.3	62.4	59.5	56.5	56.0
30°	438.1	420.5	376.2	242.2	77.5	57.5	56.0	52.6	48.2	45.3	44.3
32.5°	473.2	447.8	385.9	181.3	56.5	50.7	46.8	42.4	37.5	34.6	34.6
35°	510.7	473.7	390.8	119.4	49.2	44.3	38.5	33.1	28.8	26.3	25.8
37.5°	545.3	510.7	389.4	73.1	43.9	38.0	31.7	26.3	22.4	20.5	20.5
40°	615.9	575.5	369.4	50.2	38.5	32.2	25.8	20.5	18.0	16.6	16.6
42.5°	716.8	646.6	325.0	42.9	33.6	26.8	20.5	17.1	15.1	13.6	13.6
45°	829.9	725.1	259.2	38.5	29.2	22.4	17.1	14.1	12.2	11.7	11.7
47.5°	978.0	820.1	190.5	34.6	25.3	19.0	14.1	11.7	10.7	10.2	10.2
50°	1107.6	897.1	130.1	30.2	22.4	16.1	12.2	10.7	9.7	9.3	9.3
52.5°	1225.6	950.7	85.8	26.3	20.0	13.2	11.2	9.7	9.3	8.8	8.8
55°	1364.4	991.6	58.0	22.9	17.5	12.2	10.7	9.7	8.8	8.8	8.3
57.5°	1482.4	1016.0	41.4	19.5	15.6	11.2	10.2	9.3	8.3	7.8	7.8
60°	1551.1	987.3	30.2	17.1	13.6	10.2	9.3	8.3	7.8	7.3	7.3
62.5°	1570.1	931.7	23.4	14.6	11.7	9.3	8.3	7.3	6.8	6.3	6.3
64°	1526.2	872.3	20.0	12.7	10.2	8.3	7.8	6.8	5.8	4.9	4.9
65°	1464.3	817.2	18.0	11.7	9.3	7.8	7.3	6.3	4.9	3.9	3.9
67.5°	1220.2	651.5	14.6	9.7	7.3	6.8	5.8	4.9	3.4	2.4	2.4
70°	866.4	455.6	11.2	7.8	6.3	6.3	5.4	3.9	1.9	1.0	1.0
72.5°	458.5	236.8	9.3	6.3	4.9	4.9	4.4	2.4	1.5	1.0	0.5
75°	160.3	78.0	7.8	5.4	4.4	3.4	2.9	1.9	1.5	1.0	0.5
77.5°	48.7	25.8	6.8	5.4	3.9	2.9	3.4	2.9	2.9	1.9	1.5
80°	15.6	9.3	3.9	3.4	3.9	3.9	3.4	2.9	3.4	2.4	1.9
82.5°	5.8	3.4	1.5	1.9	1.9	2.4	2.4	1.9	1.5	0.5	0.0
85°	1.9	1.5	1.0	1.5	1.5	1.5	1.0	1.0	0.5	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	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)