

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: P401117

Luminaire Tested: **ENV-SA1B-735-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1B-735-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2437 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-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

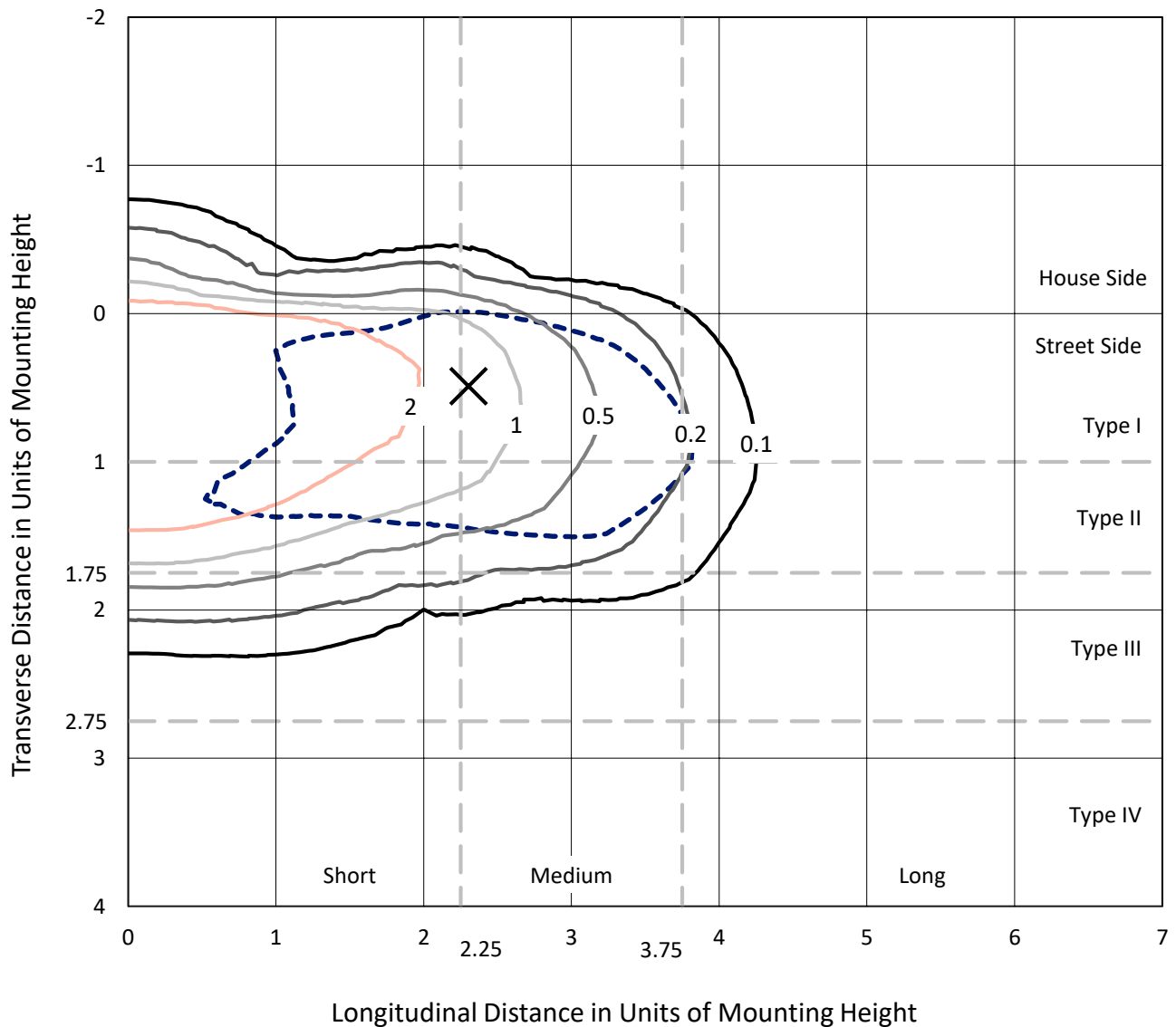


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

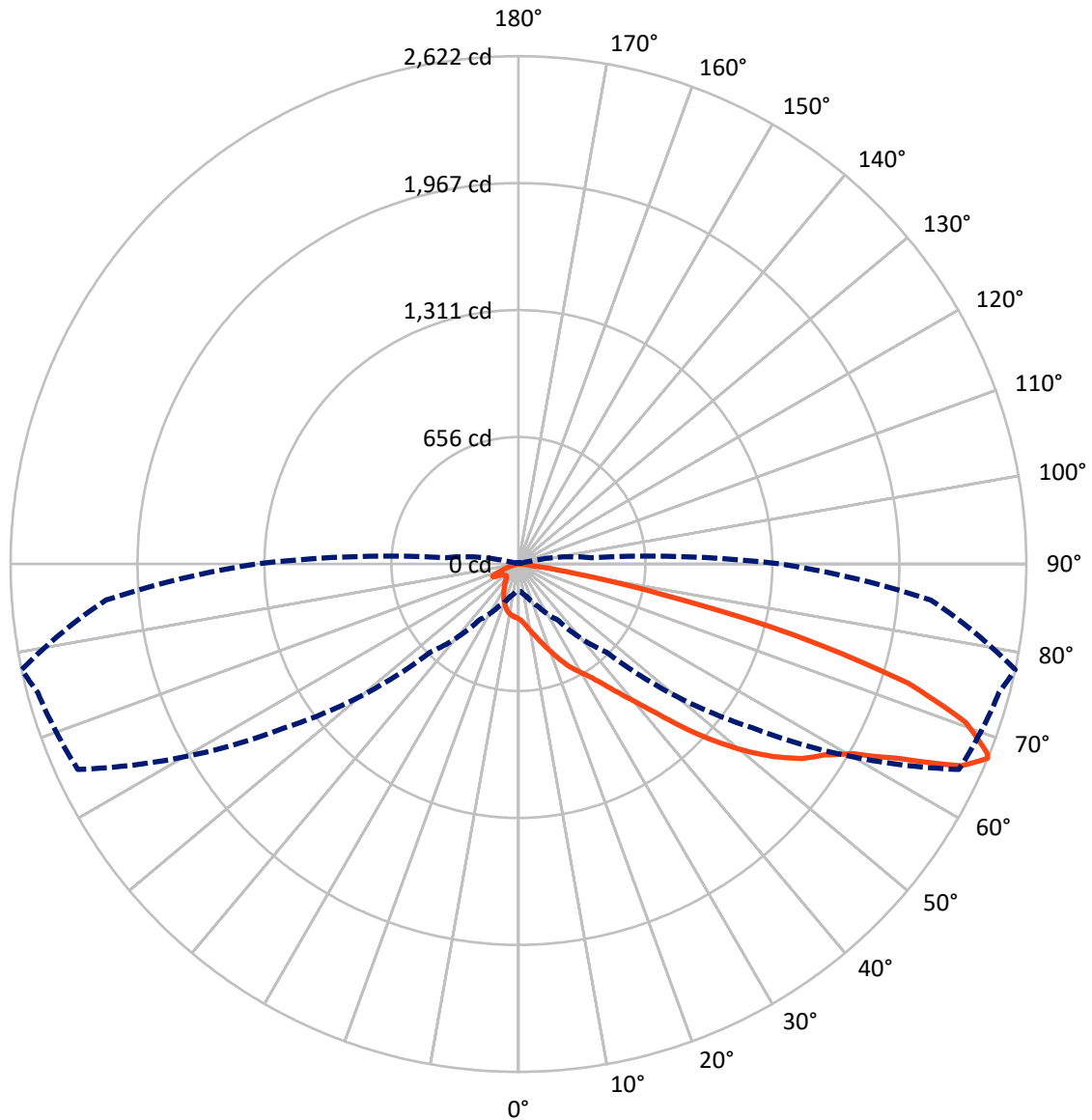


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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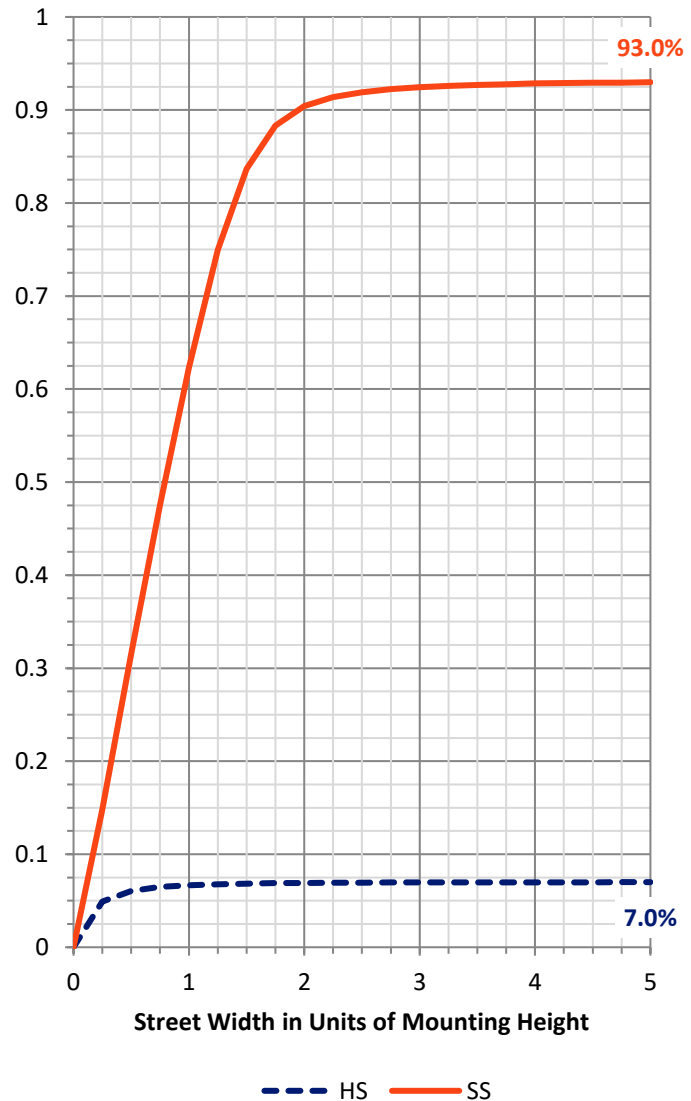
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	171.9	0.0	171.9
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	2265.1	0.0	2265.1
	% Fixture	92.9	0.0	92.9
Total	Lumens	2437.0	0.0	2437.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	1.1
10°-20°	78.1	3.2
20°-30°	138.0	5.7
30°-40°	243.4	10.0
40°-50°	418.3	17.2
50°-60°	629.6	25.8
60°-70°	619.6	25.4
70°-80°	270.7	11.1
80°-90°	12.0	0.5
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°	2437.0	100.0
0°-180°	2437.0	100.0



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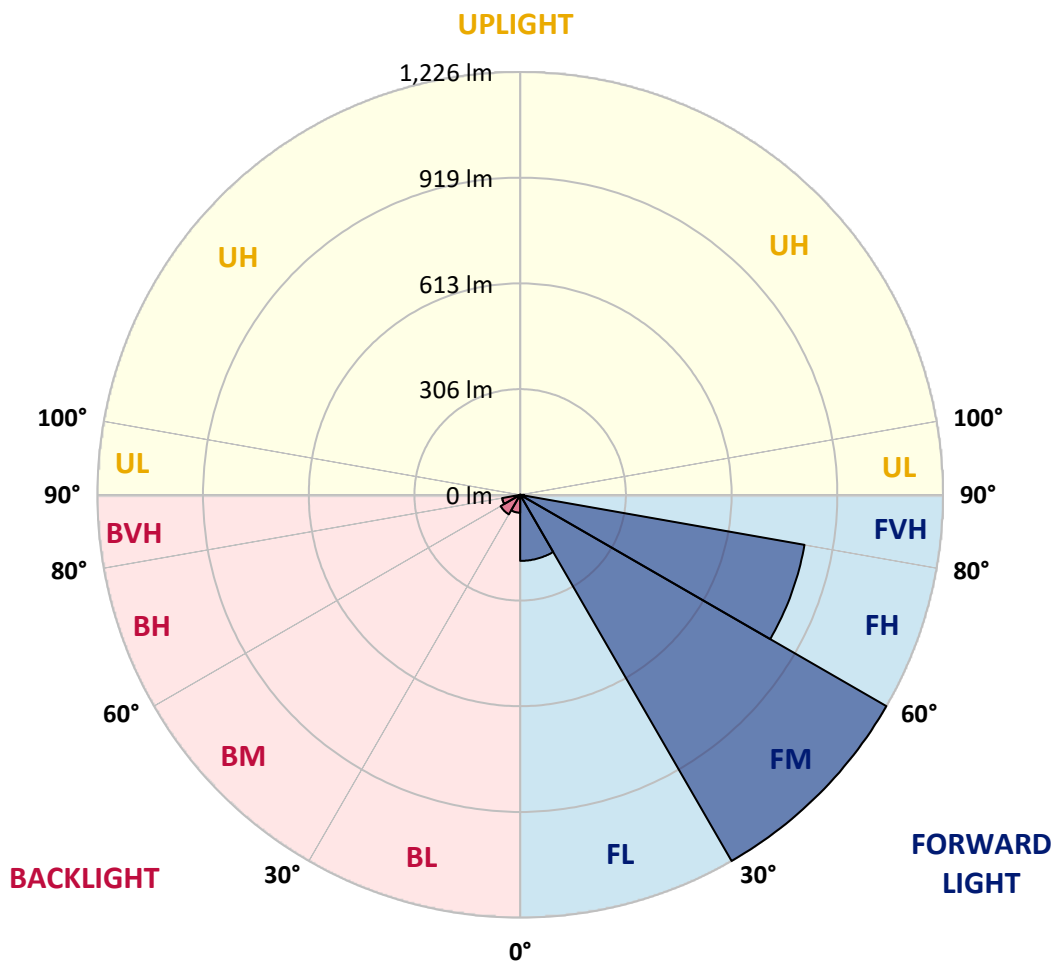
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.5	7.9			
FM (30°-60°)	1225.8	50.3			
FH (60°-80°)	837.0	34.3			G1/1800
FVH (80°-90°)	10.8	0.4			G1/100
BL (0°-30°)	52.0	2.1	B0/110		
BM (30°-60°)	65.4	2.7	B0/220		
BH (60°-80°)	53.3	2.2	B0/110		G0/110
BVH (80°-90°)	1.2	0.1			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	282.9	282.9	282.9	282.9	282.9	282.9	282.9	282.9	282.9	282.9	282.9
2.5°	324.6	326.0	324.2	322.8	319.1	314.5	310.0	303.1	295.8	293.0	288.4
5°	364.4	364.4	364.4	360.8	357.6	348.9	338.3	327.8	314.1	309.0	298.5
7.5°	385.5	386.0	387.3	387.3	385.5	379.6	368.1	356.2	335.6	328.7	311.8
10°	387.8	389.6	393.3	398.8	402.9	406.1	399.2	386.4	361.7	353.5	328.7
12.5°	381.8	382.8	388.7	398.8	412.1	425.3	425.8	418.0	390.5	379.1	349.3
15°	368.1	369.5	378.2	394.2	414.8	438.6	452.4	450.1	424.4	411.1	372.2
17.5°	346.1	347.5	358.5	382.3	412.5	447.3	476.6	488.1	457.8	445.0	395.6
20°	345.2	345.7	349.8	367.7	403.4	452.4	500.4	527.4	498.6	484.9	423.1
22.5°	403.8	400.2	391.0	379.6	395.1	451.0	521.9	569.1	549.0	527.4	454.6
25°	469.3	470.7	460.6	433.6	413.9	448.7	538.4	616.3	596.1	574.6	487.1
27.5°	538.0	535.7	527.0	502.3	469.3	465.2	550.3	654.3	641.4	615.3	516.0
30°	604.8	603.0	596.6	571.4	535.7	507.8	559.5	688.6	684.5	655.6	539.3
32.5°	681.3	684.5	676.2	643.3	599.8	565.4	579.2	724.8	736.7	701.4	563.6
35°	770.1	770.1	753.2	722.9	678.1	630.0	618.6	764.6	803.1	765.1	602.1
37.5°	843.4	849.3	839.2	795.7	753.6	703.3	678.5	813.6	885.0	846.6	653.8
40°	901.0	911.1	911.6	868.5	829.6	796.7	762.3	882.7	988.0	938.6	715.6
42.5°	954.6	956.4	964.2	939.5	900.6	891.9	856.6	964.7	1116.7	1058.5	798.0
45°	1022.8	1026.5	1021.9	1003.6	970.2	981.6	961.9	1068.6	1261.4	1212.4	895.1
47.5°	1123.1	1131.8	1124.9	1092.0	1051.2	1072.7	1058.5	1172.1	1424.8	1365.3	1000.4
50°	1217.0	1223.8	1231.2	1220.6	1179.9	1159.3	1141.9	1281.5	1564.9	1514.6	1103.9
52.5°	1227.0	1233.4	1273.7	1310.8	1337.8	1283.8	1229.3	1392.3	1694.5	1652.4	1198.6
55°	1161.6	1165.7	1233.0	1306.2	1430.3	1448.6	1358.0	1501.7	1803.0	1774.2	1262.3
57.5°	979.3	996.7	1092.4	1204.6	1407.4	1546.6	1540.7	1629.0	1873.5	1860.2	1344.2
60°	643.3	662.5	777.0	946.8	1238.9	1520.5	1741.2	1819.9	1972.4	1987.1	1488.0
62.5°	333.3	355.7	456.5	607.1	897.8	1324.1	1809.4	2133.6	2162.0	2211.9	1744.4
65°	190.5	195.0	245.4	355.7	555.8	948.2	1727.5	2444.0	2411.5	2512.7	2071.8
67°	141.5	141.5	176.7	241.7	352.1	644.6	1473.4	2509.5	2568.5	2622.1	2137.7
67.5°	126.8	133.7	163.9	223.0	315.9	571.9	1378.6	2492.1	2578.6	2612.0	2114.8
70°	87.0	91.6	117.7	159.8	212.9	297.6	903.8	2204.1	2484.3	2450.4	1916.5
72.5°	52.2	54.0	77.8	114.9	158.9	159.3	493.1	1673.0	2105.2	2104.7	1565.4
75°	32.5	34.3	45.8	76.9	111.3	99.8	228.0	1138.2	1511.8	1482.5	1048.9
77.5°	18.3	21.1	27.5	42.1	70.5	63.6	96.1	637.8	816.8	766.4	521.0
80°	7.3	8.7	15.6	20.1	39.8	38.0	39.4	224.3	330.6	298.1	174.4
82.5°	1.8	2.3	5.5	9.6	15.6	15.6	12.4	61.4	78.3	72.8	44.9
85°	0.0	0.0	0.5	0.5	0.5	0.9	3.2	6.9	8.2	9.6	7.3
87.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.9	1.4	1.4	1.4	1.4
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°	282.9	282.9	282.9	282.9	282.9	282.9	282.9	282.9	282.9	282.9	282.9
2.5°	284.8	281.6	275.2	268.3	261.4	255.9	251.4	244.9	244.0	244.0	244.0
5°	290.7	283.4	268.8	254.1	239.5	226.2	216.6	208.8	201.9	199.6	201.5
7.5°	299.4	286.2	260.5	234.9	212.0	193.2	179.5	168.5	163.5	160.7	158.4
10°	310.9	290.3	249.5	212.0	183.1	160.7	146.1	135.5	130.5	127.3	127.7
12.5°	323.2	293.5	235.8	187.3	155.2	134.6	122.2	113.5	105.3	100.3	101.6
15°	335.6	295.8	218.9	164.4	133.7	115.4	98.0	82.4	76.9	76.0	75.5
17.5°	349.3	295.3	200.1	142.8	115.4	89.7	72.3	70.5	70.1	70.1	69.6
20°	363.5	293.0	178.6	125.0	97.1	68.2	65.5	64.6	63.2	62.7	62.3
22.5°	379.1	288.9	158.9	109.4	72.3	62.3	58.6	55.9	53.6	52.2	52.7
25°	393.3	281.1	139.6	94.8	61.8	55.9	50.8	46.7	44.4	42.6	43.0
27.5°	402.9	267.4	123.2	76.5	56.8	49.4	43.5	39.4	36.2	34.8	34.8
30°	403.8	247.7	108.5	62.7	51.7	43.5	37.1	32.5	30.7	29.8	29.3
32.5°	402.9	227.6	97.5	57.7	47.2	38.0	31.6	28.4	26.6	25.6	25.6
35°	407.5	206.9	87.4	53.1	42.1	33.4	27.9	24.7	23.4	22.4	22.4
37.5°	421.2	192.8	76.9	48.5	37.5	29.3	25.2	22.4	21.1	20.1	20.1
40°	440.0	180.8	64.1	44.0	33.0	26.6	22.9	20.6	18.8	17.9	17.9
42.5°	473.0	176.3	53.6	39.4	28.8	23.8	21.1	18.3	16.5	15.6	15.6
45°	521.9	178.6	49.0	35.3	26.1	21.5	18.8	16.0	14.2	13.7	13.7
47.5°	576.0	188.2	45.8	31.6	23.8	20.1	16.9	14.2	12.4	11.9	11.9
50°	636.4	203.3	43.0	27.9	21.5	18.3	15.1	12.4	11.0	10.5	10.5
52.5°	694.1	222.5	40.3	25.2	20.1	16.5	13.3	11.0	10.1	9.6	9.6
55°	738.0	234.9	38.0	23.4	18.8	15.1	11.9	10.5	9.2	8.7	8.7
57.5°	799.4	255.5	35.3	21.1	16.9	13.7	11.0	9.6	8.2	8.2	8.2
60°	923.9	310.9	31.1	19.2	15.1	12.4	10.5	8.7	7.8	7.3	7.3
62.5°	1148.3	402.4	27.0	17.9	13.3	11.0	9.2	7.8	6.9	6.0	6.0
65°	1364.4	440.4	22.9	15.6	11.9	9.6	8.2	6.9	5.0	4.1	4.1
67°	1352.5	376.8	19.2	13.3	10.1	8.7	6.9	5.5	3.7	2.3	2.3
67.5°	1320.4	350.7	18.8	12.8	9.6	8.2	6.9	5.0	3.2	1.8	1.8
70°	1122.2	245.4	14.7	10.1	8.2	7.3	5.5	3.7	1.8	0.9	0.9
72.5°	911.6	194.6	11.4	8.2	6.9	5.5	4.6	2.3	1.4	0.5	0.5
75°	644.6	119.5	10.1	7.3	5.5	4.1	3.7	2.3	1.4	0.9	0.5
77.5°	318.2	54.9	8.2	6.4	5.0	4.1	3.2	2.7	2.3	1.8	0.9
80°	93.4	17.9	5.5	4.6	4.6	4.1	3.7	3.2	2.7	2.3	1.4
82.5°	21.1	6.4	1.8	2.3	3.2	3.2	3.2	2.3	1.8	0.9	0.5
85°	2.7	1.4	1.4	1.4	1.8	1.8	1.4	0.9	0.9	0.0	0.0
87.5°	0.9	0.9	0.9	1.4	1.4	1.4	0.9	0.5	0.5	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)