

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: P401261

Luminaire Tested: **ENV-SA1C-727-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401261
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-SA1C-727-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 2855 lumens
Efficiency: N/A
Efficacy: 85.7 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): 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

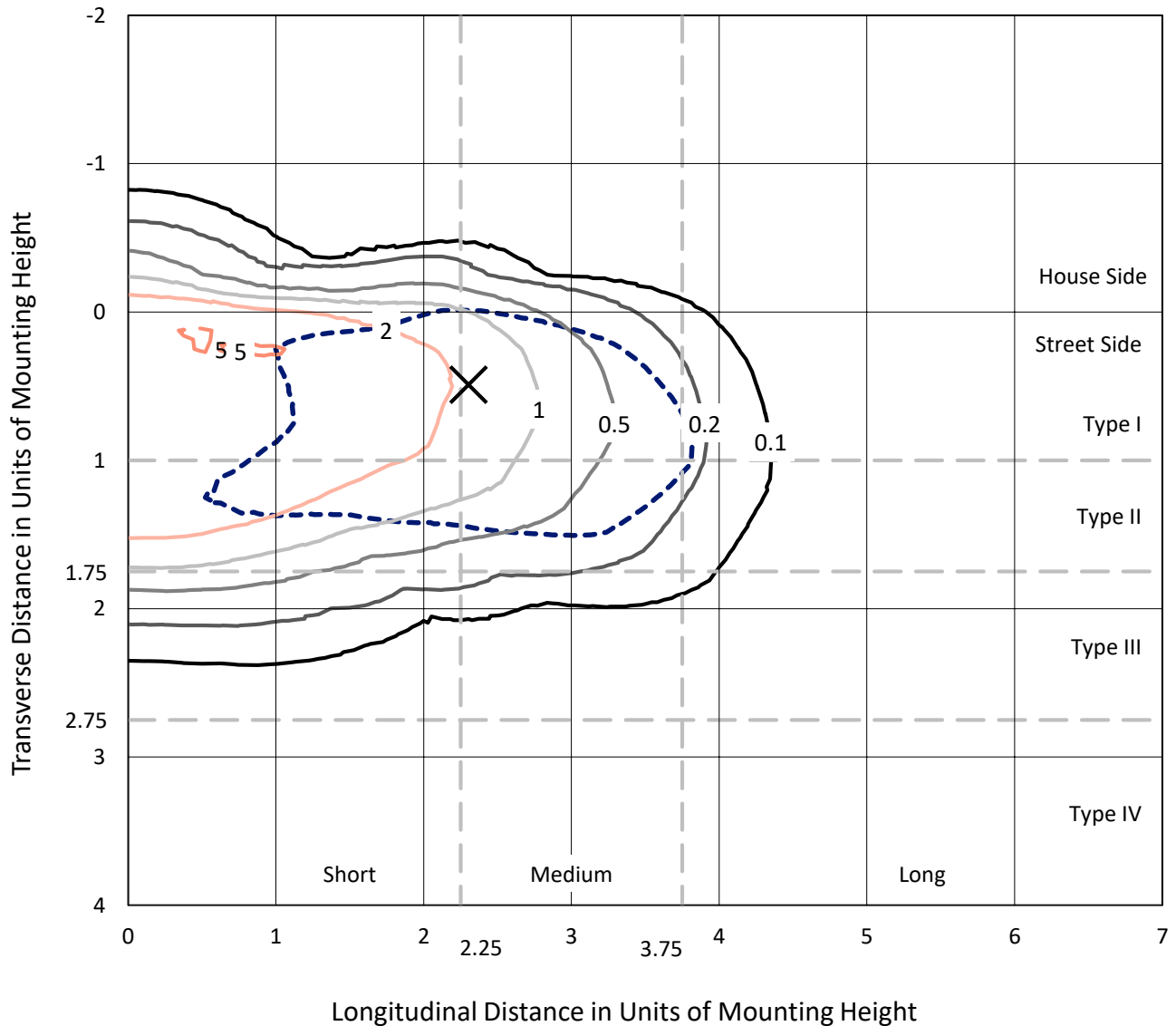


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

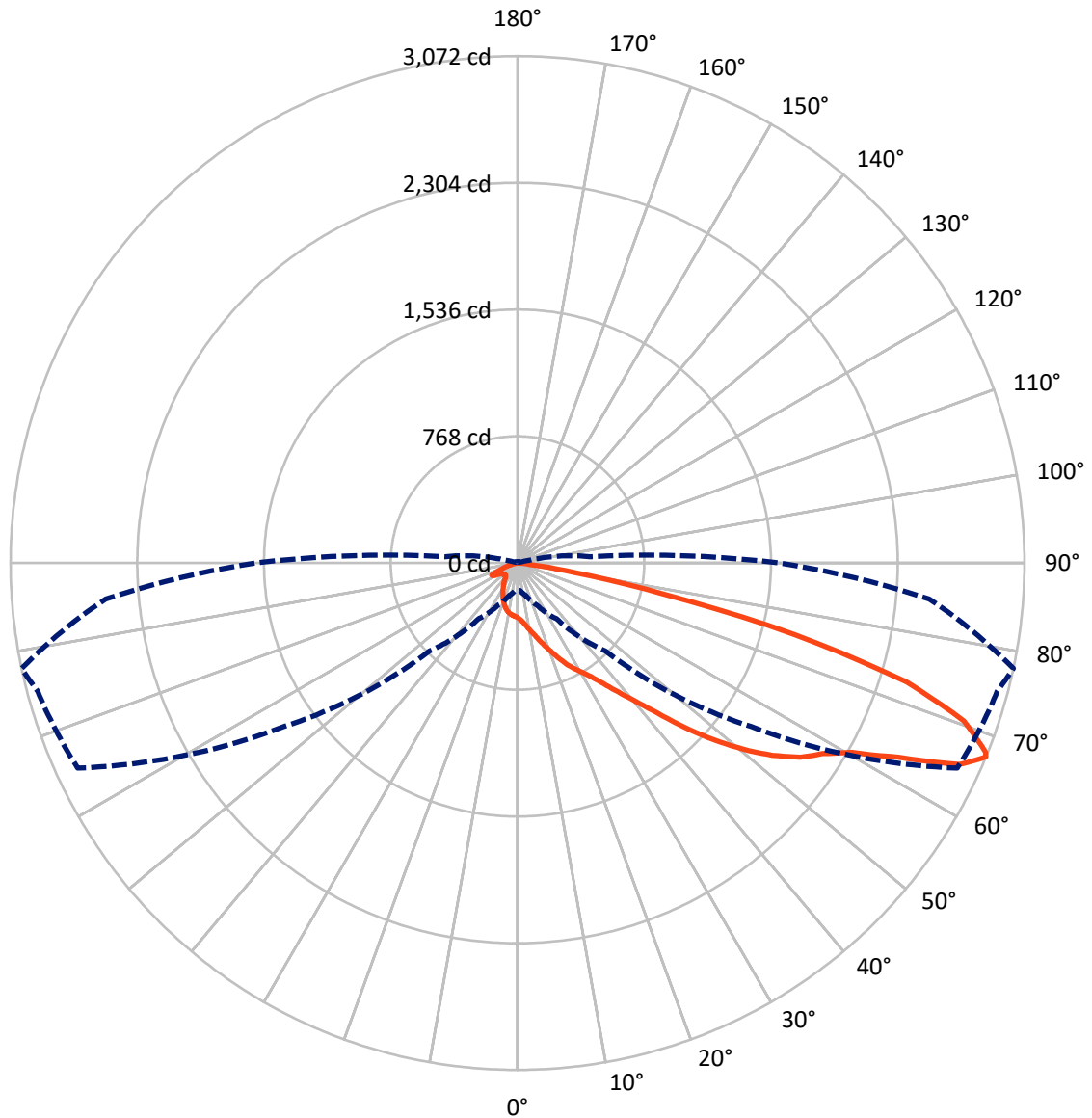


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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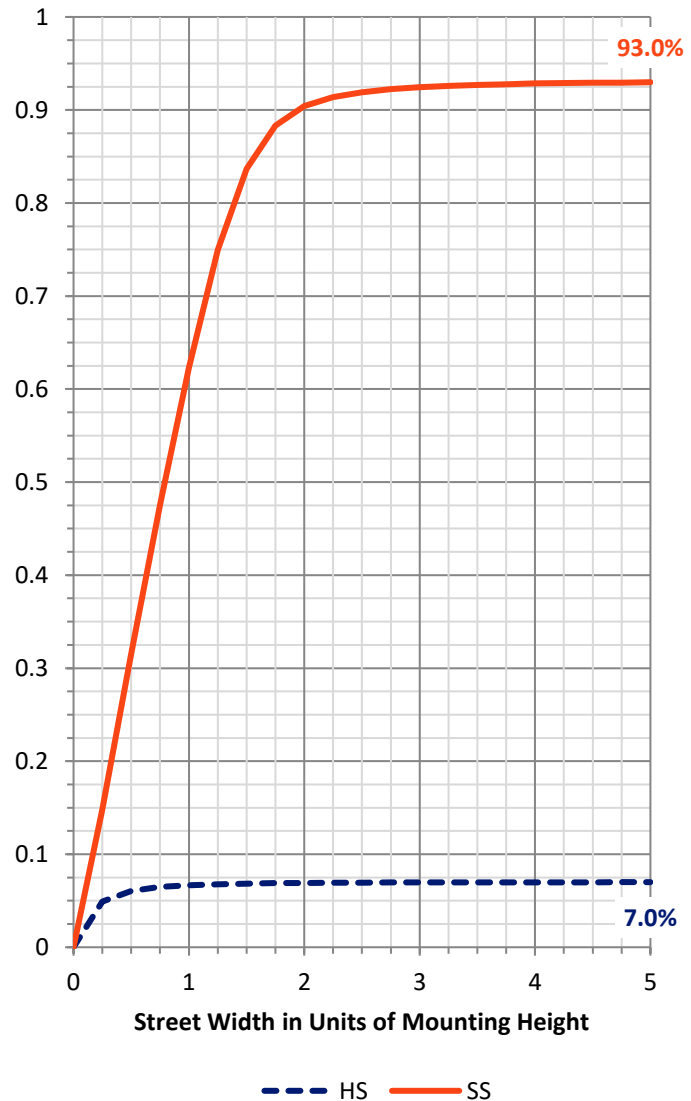
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	201.4	0.0	201.4
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	2653.6	0.0	2653.6
	% Fixture	92.9	0.0	92.9
Total	Lumens	2855.0	0.0	2855.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.0	1.1
10°-20°	91.5	3.2
20°-30°	161.7	5.7
30°-40°	285.1	10.0
40°-50°	490.0	17.2
50°-60°	737.6	25.8
60°-70°	725.9	25.4
70°-80°	317.2	11.1
80°-90°	14.1	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°	2855.0	100.0
0°-180°	2855.0	100.0



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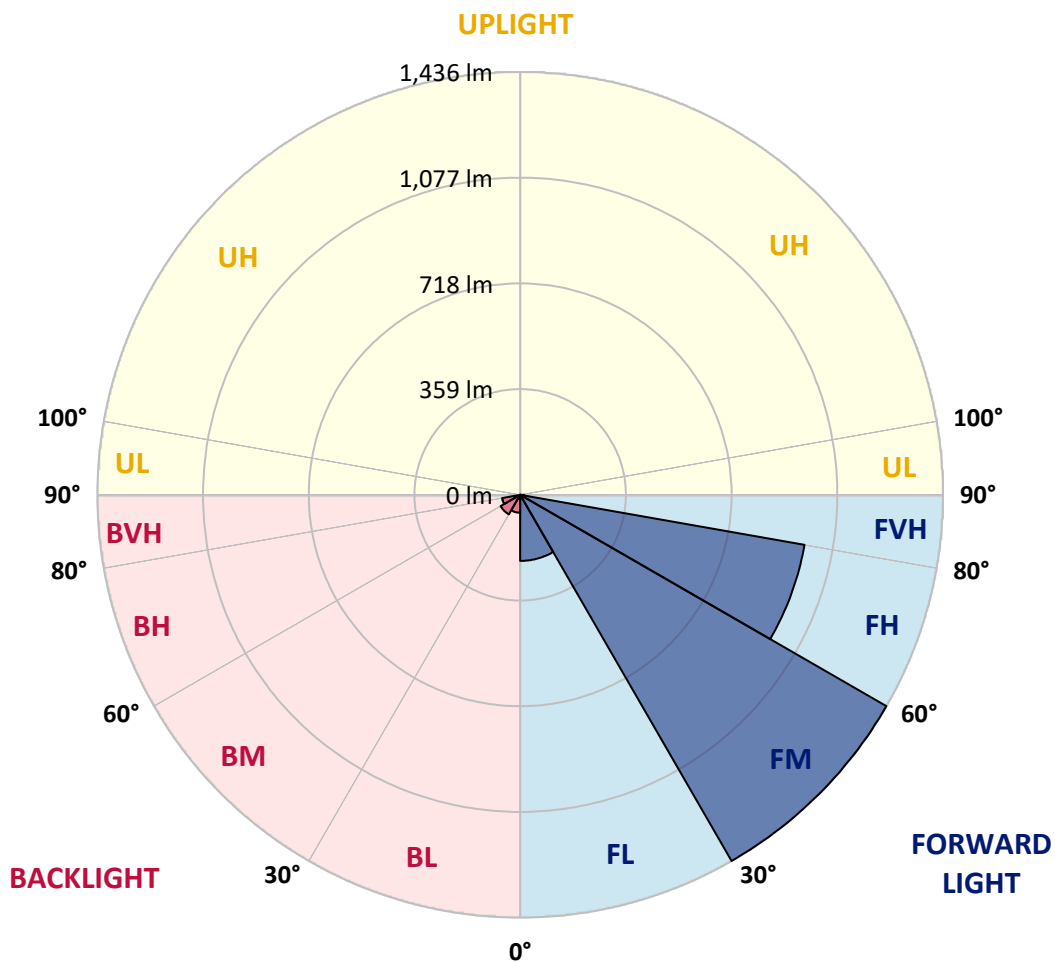
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	224.3	7.9			
FM (30°-60°)	1436.1	50.3			
FH (60°-80°)	980.5	34.3			G1/1800
FVH (80°-90°)	12.6	0.4			G1/100
BL (0°-30°)	60.9	2.1	B0/110		
BM (30°-60°)	76.6	2.7	B0/220		
BH (60°-80°)	62.5	2.2	B0/110		G0/110
BVH (80°-90°)	1.4	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°	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5
2.5°	380.3	381.9	379.8	378.1	373.9	368.5	363.1	355.1	346.5	343.3	337.9
5°	427.0	427.0	427.0	422.7	418.9	408.7	396.4	384.0	368.0	362.1	349.7
7.5°	451.6	452.2	453.8	453.8	451.6	444.7	431.2	417.3	393.2	385.1	365.3
10°	454.3	456.5	460.7	467.2	472.0	475.8	467.7	452.7	423.7	414.1	385.1
12.5°	447.3	448.4	455.4	467.2	482.7	498.3	498.8	489.7	457.5	444.1	409.3
15°	431.2	432.9	443.0	461.8	486.0	513.9	529.9	527.3	497.2	481.7	436.1
17.5°	405.5	407.1	420.0	447.9	483.3	524.0	558.4	571.8	536.4	521.4	463.4
20°	404.4	405.0	409.8	430.7	472.5	529.9	586.3	617.9	584.1	568.0	495.6
22.5°	473.1	468.8	458.1	444.7	462.9	528.3	611.5	666.7	643.1	617.9	532.6
25°	549.8	551.4	539.6	508.0	484.9	525.7	630.8	722.0	698.4	673.2	570.7
27.5°	630.2	627.6	617.4	588.4	549.8	545.0	644.7	766.5	751.5	720.9	604.5
30°	708.6	706.4	698.9	669.4	627.6	594.8	655.5	806.7	801.9	768.1	631.9
32.5°	798.1	801.9	792.2	753.6	702.7	662.4	678.5	849.1	863.0	821.7	660.3
35°	902.2	902.2	882.3	846.9	794.4	738.1	724.6	895.8	940.8	896.3	705.3
37.5°	988.0	995.0	983.2	932.2	882.9	823.9	794.9	953.1	1036.8	991.8	765.9
40°	1055.6	1067.4	1067.9	1017.5	971.9	933.3	893.1	1034.1	1157.5	1099.6	838.4
42.5°	1118.3	1120.5	1129.6	1100.6	1055.1	1044.9	1003.6	1130.1	1308.2	1240.1	934.9
45°	1198.3	1202.6	1197.2	1175.7	1136.6	1150.0	1126.9	1251.9	1477.7	1420.3	1048.6
47.5°	1315.7	1325.9	1317.9	1279.3	1231.5	1256.7	1240.1	1373.1	1669.2	1599.5	1172.0
50°	1425.7	1433.7	1442.3	1430.0	1382.2	1358.1	1337.7	1501.3	1833.3	1774.3	1293.2
52.5°	1437.5	1445.0	1492.2	1535.7	1567.3	1504.0	1440.2	1631.1	1985.1	1935.8	1404.2
55°	1360.8	1365.6	1444.5	1530.3	1675.6	1697.1	1590.9	1759.3	2112.3	2078.5	1478.8
57.5°	1147.3	1167.7	1279.8	1411.2	1648.8	1811.9	1804.9	1908.4	2194.9	2179.3	1574.8
60°	753.6	776.1	910.2	1109.2	1451.4	1781.3	2039.8	2132.1	2310.7	2327.9	1743.2
62.5°	390.5	416.8	534.8	711.2	1051.8	1551.2	2119.8	2499.5	2532.8	2591.2	2043.6
65°	223.1	228.5	287.5	416.8	651.2	1110.8	2023.8	2863.2	2825.1	2943.6	2427.1
67°	165.7	165.7	207.0	283.2	412.5	755.2	1726.1	2939.9	3009.1	3071.8	2504.4
67.5°	148.6	156.6	192.0	261.2	370.1	669.9	1615.0	2919.5	3020.9	3060.0	2477.5
70°	101.9	107.3	137.8	187.2	249.4	348.6	1058.8	2582.1	2910.4	2870.7	2245.3
72.5°	61.1	63.3	91.2	134.6	186.1	186.7	577.7	1959.9	2466.3	2465.7	1833.9
75°	38.1	40.2	53.6	90.1	130.3	116.9	267.1	1333.4	1771.1	1736.8	1228.8
77.5°	21.5	24.7	32.2	49.3	82.6	74.6	112.6	747.2	956.9	897.9	610.4
80°	8.6	10.2	18.2	23.6	46.7	44.5	46.1	262.8	387.3	349.2	204.4
82.5°	2.1	2.7	6.4	11.3	18.2	18.2	14.5	71.9	91.7	85.3	52.6
85°	0.0	0.0	0.5	0.5	0.5	1.1	3.8	8.0	9.7	11.3	8.6
87.5°	0.0	0.0	0.0	0.5	0.5	0.5	1.1	1.6	1.6	1.6	1.6
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°	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5
2.5°	333.6	329.9	322.4	314.3	306.3	299.8	294.5	287.0	285.9	285.9	285.9
5°	340.6	332.0	314.9	297.7	280.5	265.0	253.7	244.6	236.5	233.9	236.0
7.5°	350.8	335.2	305.2	275.2	248.3	226.4	210.3	197.4	191.5	188.3	185.6
10°	364.2	340.1	292.3	248.3	214.6	188.3	171.1	158.8	152.9	149.1	149.6
12.5°	378.7	343.8	276.2	219.4	181.8	157.7	143.2	133.0	123.4	117.5	119.1
15°	393.2	346.5	256.4	192.6	156.6	135.2	114.8	96.5	90.1	89.0	88.5
17.5°	409.3	346.0	234.4	167.4	135.2	105.1	84.7	82.6	82.1	82.1	81.5
20°	425.9	343.3	209.2	146.4	113.7	79.9	76.7	75.6	74.0	73.5	72.9
22.5°	444.1	338.5	186.1	128.2	84.7	72.9	68.7	65.4	62.8	61.1	61.7
25°	460.7	329.3	163.6	111.0	72.4	65.4	59.5	54.7	52.0	49.9	50.4
27.5°	472.0	313.2	144.3	89.6	66.5	57.9	51.0	46.1	42.4	40.8	40.8
30°	473.1	290.2	127.1	73.5	60.6	51.0	43.4	38.1	35.9	34.9	34.3
32.5°	472.0	266.6	114.2	67.6	55.2	44.5	37.0	33.3	31.1	30.0	30.0
35°	477.4	242.4	102.4	62.2	49.3	39.2	32.7	29.0	27.4	26.3	26.3
37.5°	493.5	225.8	90.1	56.9	44.0	34.3	29.5	26.3	24.7	23.6	23.6
40°	515.5	211.9	75.1	51.5	38.6	31.1	26.8	24.1	22.0	20.9	20.9
42.5°	554.1	206.5	62.8	46.1	33.8	27.9	24.7	21.5	19.3	18.2	18.2
45°	611.5	209.2	57.4	41.3	30.6	25.2	22.0	18.8	16.6	16.1	16.1
47.5°	674.8	220.5	53.6	37.0	27.9	23.6	19.8	16.6	14.5	13.9	13.9
50°	745.6	238.2	50.4	32.7	25.2	21.5	17.7	14.5	12.9	12.3	12.3
52.5°	813.1	260.7	47.2	29.5	23.6	19.3	15.6	12.9	11.8	11.3	11.3
55°	864.6	275.2	44.5	27.4	22.0	17.7	13.9	12.3	10.7	10.2	10.2
57.5°	936.5	299.3	41.3	24.7	19.8	16.1	12.9	11.3	9.7	9.7	9.7
60°	1082.4	364.2	36.5	22.5	17.7	14.5	12.3	10.2	9.1	8.6	8.6
62.5°	1345.2	471.5	31.6	20.9	15.6	12.9	10.7	9.1	8.0	7.0	7.0
65°	1598.4	516.0	26.8	18.2	13.9	11.3	9.7	8.0	5.9	4.8	4.8
67°	1584.5	441.4	22.5	15.6	11.8	10.2	8.0	6.4	4.3	2.7	2.7
67.5°	1546.9	410.9	22.0	15.0	11.3	9.7	8.0	5.9	3.8	2.1	2.1
70°	1314.7	287.5	17.2	11.8	9.7	8.6	6.4	4.3	2.1	1.1	1.1
72.5°	1067.9	228.0	13.4	9.7	8.0	6.4	5.4	2.7	1.6	0.5	0.5
75°	755.2	140.0	11.8	8.6	6.4	4.8	4.3	2.7	1.6	1.1	0.5
77.5°	372.8	64.4	9.7	7.5	5.9	4.8	3.8	3.2	2.7	2.1	1.1
80°	109.4	20.9	6.4	5.4	5.4	4.8	4.3	3.8	3.2	2.7	1.6
82.5°	24.7	7.5	2.1	2.7	3.8	3.8	3.8	2.7	2.1	1.1	0.5
85°	3.2	1.6	1.6	1.6	2.1	2.1	1.6	1.1	1.1	0.0	0.0
87.5°	1.1	1.1	1.1	1.6	1.6	1.6	1.1	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)