

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: P401627

Luminaire Tested: **ENT-SA1E-727-U-T4W-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401627
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-SA1E-727-U-T4W-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 4387 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

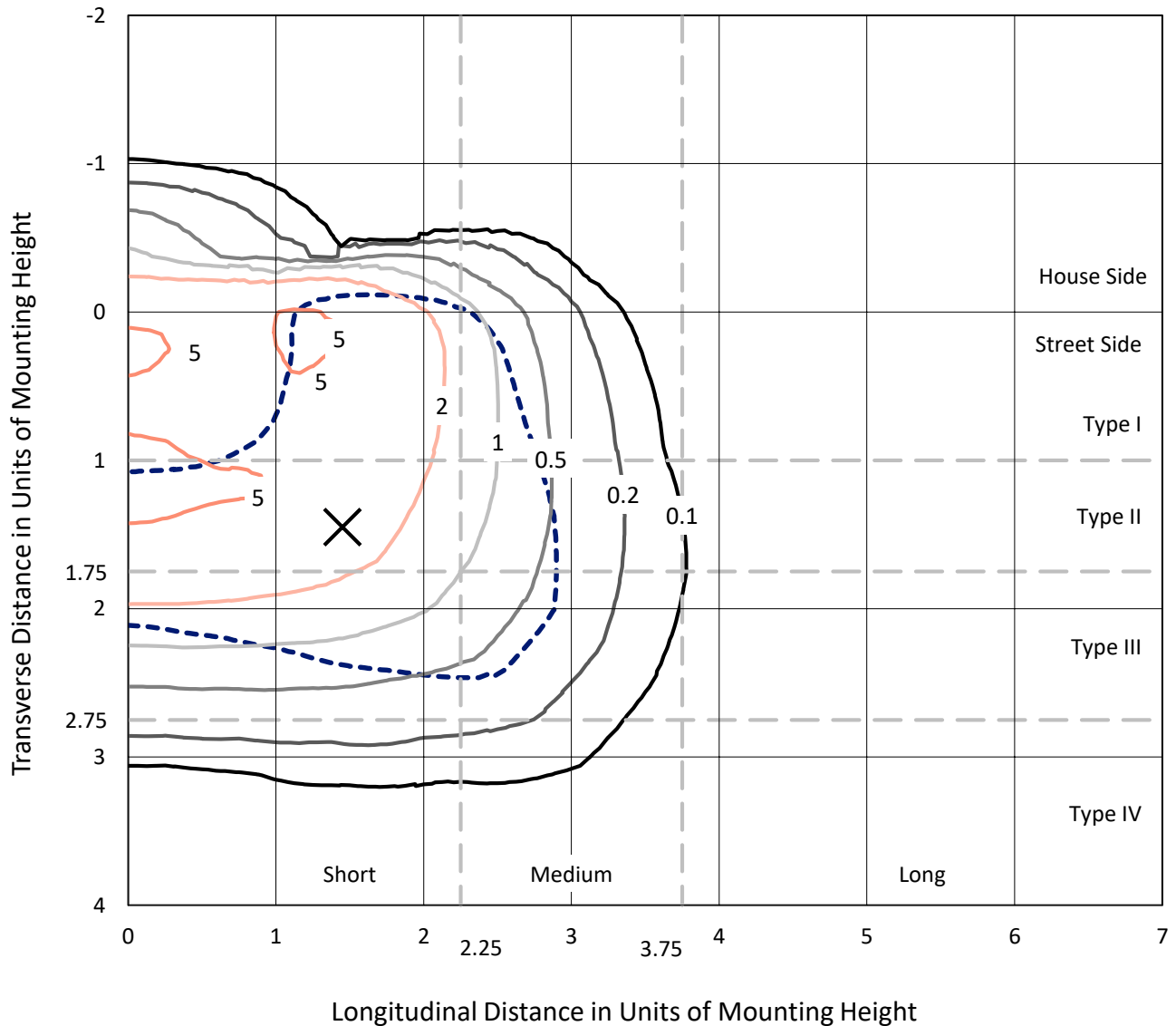
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

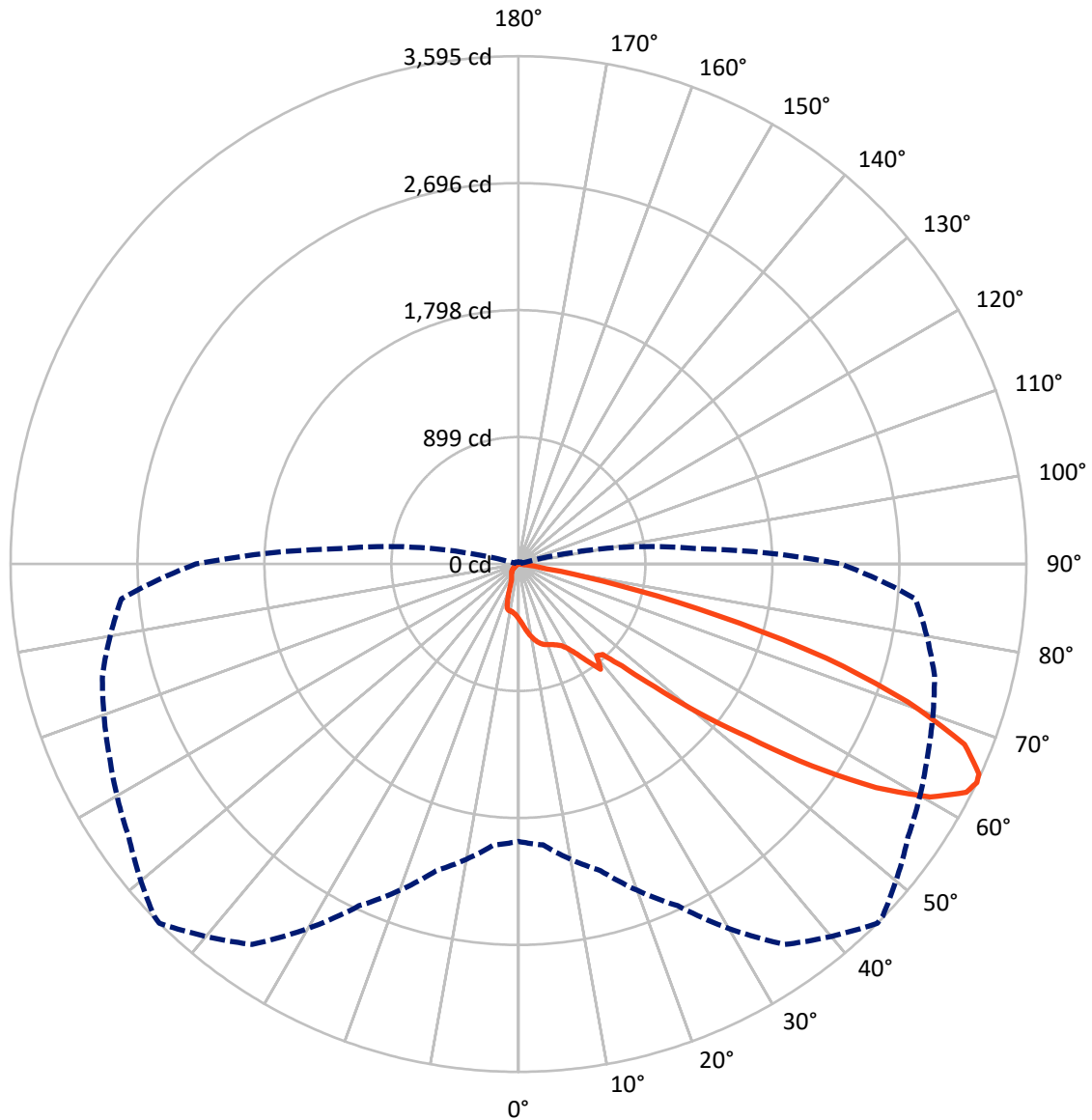
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 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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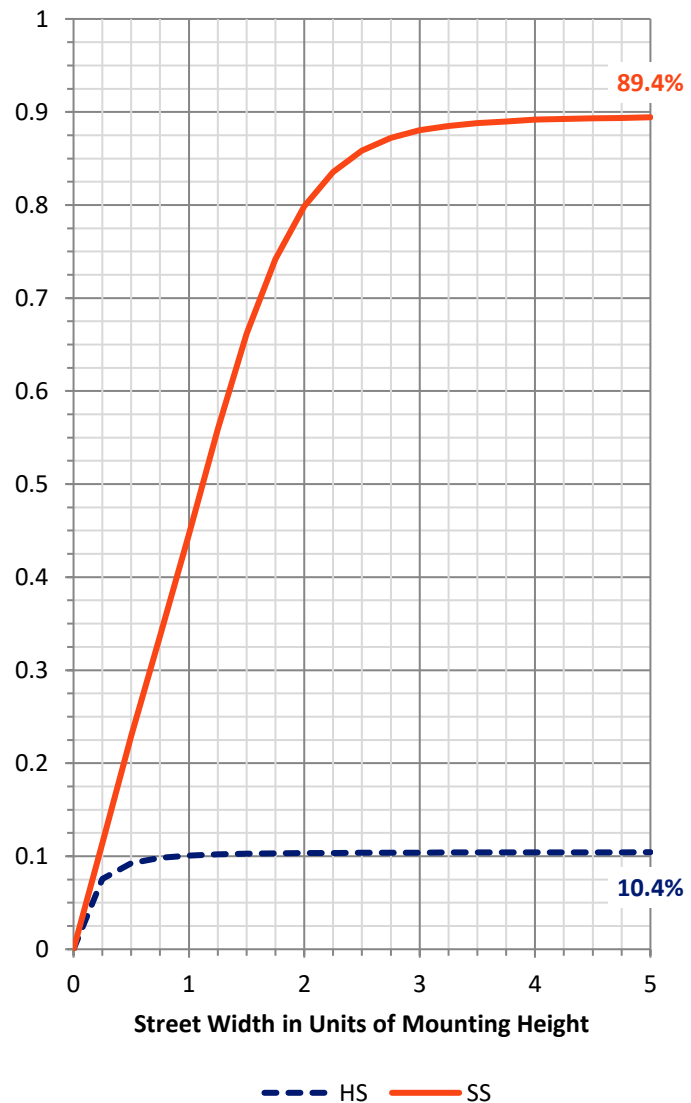
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	462.9	0.0	462.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3924.1	0.0	3924.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	4387.0	0.0	4387.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	0.9
10°-20°	123.0	2.8
20°-30°	200.2	4.6
30°-40°	318.0	7.2
40°-50°	605.8	13.8
50°-60°	1248.3	28.5
60°-70°	1394.1	31.8
70°-80°	440.3	10.0
80°-90°	17.9	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°	4387.0	100.0
0°-180°	4387.0	100.0



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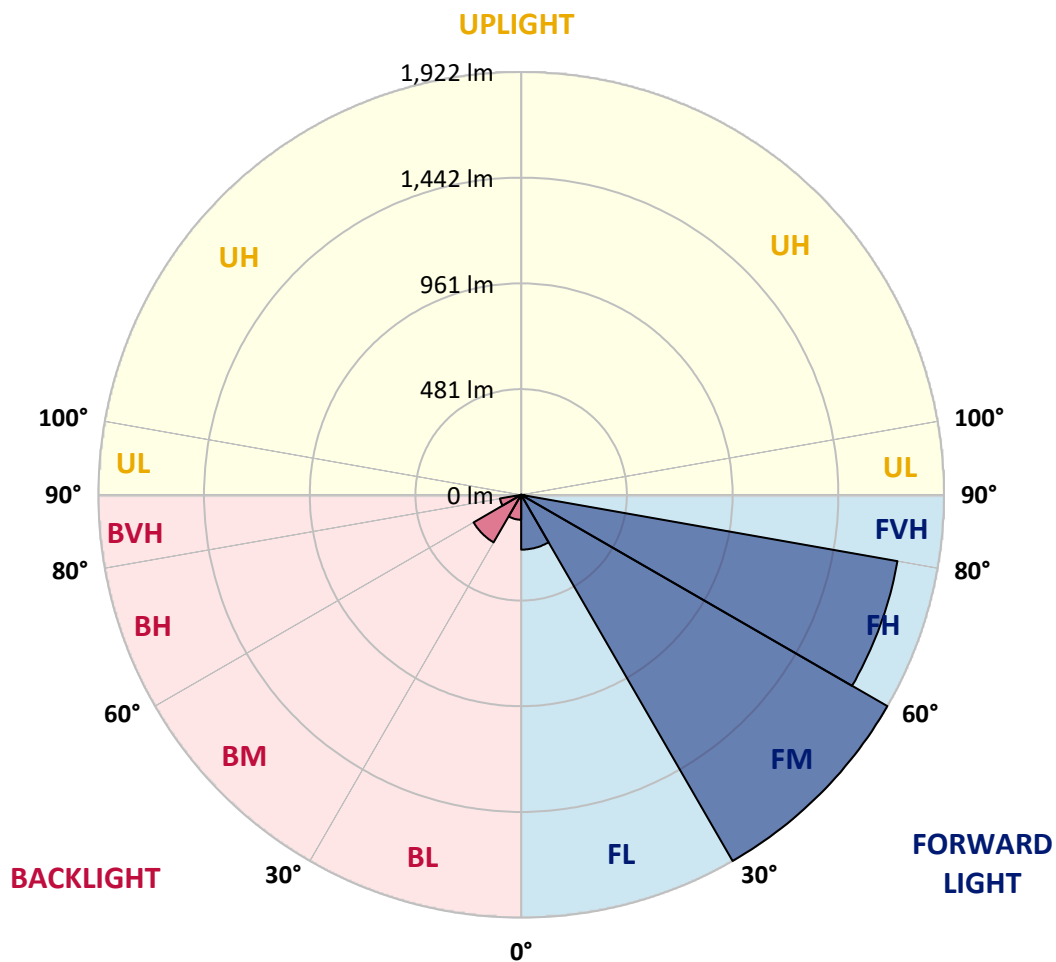
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	249.2	5.7			
FM	(30°-60°)	1922.2	43.8			
FH	(60°-80°)	1736.9	39.6			G1/1800
FVH	(80°-90°)	15.8	0.4			G1/100
BL	(0°-30°)	113.4	2.6	B1/500		
BM	(30°-60°)	249.8	5.7	B1/1000		
BH	(60°-80°)	97.6	2.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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°	46°	55°	65°	75°	85°
0°	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9
2.5°	429.0	430.7	428.2	424.8	421.5	415.6	416.4	408.9	403.1	398.9	392.2
5°	483.3	482.5	477.5	470.0	462.4	451.6	449.9	438.2	425.6	412.3	399.7
7.5°	538.5	536.0	531.0	521.0	506.8	492.5	488.4	471.6	453.2	433.2	411.4
10°	583.7	582.0	576.2	565.3	548.6	526.8	526.8	503.4	479.2	454.9	429.0
12.5°	620.5	618.8	612.1	598.7	578.7	559.4	556.9	536.0	509.3	480.8	449.1
15°	643.1	641.4	633.9	618.8	601.3	583.7	581.2	561.1	536.9	504.3	467.5
17.5°	648.9	647.2	641.4	628.0	614.6	599.6	596.2	578.7	557.8	524.3	486.7
20°	646.4	643.1	639.7	628.9	618.0	607.9	606.3	593.7	575.3	546.9	506.8
22.5°	639.7	636.4	633.9	626.3	620.5	619.7	618.0	610.5	598.7	574.5	536.9
25°	637.2	634.7	632.2	627.2	626.3	634.7	633.9	633.0	628.0	607.1	567.8
27.5°	651.4	650.6	644.7	636.4	640.6	654.8	655.6	659.8	656.4	643.1	613.0
30°	701.6	697.4	684.0	665.6	676.5	694.9	698.3	711.6	712.5	714.1	673.2
32.5°	769.3	762.7	740.1	716.7	723.3	757.6	758.5	779.4	823.7	796.1	705.8
35°	816.2	807.8	773.5	761.0	794.4	848.8	856.3	899.0	902.3	802.0	703.3
37.5°	947.5	934.9	872.2	796.1	828.7	945.8	954.1	946.6	876.4	793.6	739.2
40°	1123.1	1111.4	1055.3	927.4	835.4	853.0	857.1	879.7	893.1	852.1	854.6
42.5°	1351.4	1336.3	1278.6	1122.2	939.9	875.5	883.9	929.9	1017.7	1036.9	1135.6
45°	1584.7	1576.3	1517.8	1348.9	1130.6	1029.4	1033.6	1089.6	1246.8	1368.1	1451.7
47.5°	1813.0	1814.6	1764.5	1621.5	1408.2	1296.2	1291.2	1363.9	1562.9	1649.1	1734.4
50°	2134.9	2133.2	2043.8	1955.1	1788.7	1655.8	1647.4	1688.4	1879.9	1911.6	2043.8
52.5°	2501.2	2499.5	2364.9	2323.1	2252.8	2038.8	2061.3	2026.2	2164.2	2221.1	2408.4
55°	2675.1	2660.1	2603.2	2655.9	2739.5	2524.6	2521.3	2387.5	2495.3	2543.8	2718.6
57.5°	2657.6	2663.4	2717.8	2892.6	3166.8	2987.0	2992.1	2743.7	2806.4	2836.5	2964.5
60°	2558.1	2562.2	2688.5	2979.5	3380.1	3349.1	3331.6	3076.5	3035.6	3023.0	3084.1
62.5°	2273.7	2275.4	2480.3	2854.1	3378.4	3558.2	3541.5	3310.7	3182.7	3102.4	2991.2
64°	1964.3	1996.1	2247.0	2669.3	3287.3	3595.0	3585.8	3367.5	3196.1	3048.9	2820.6
65°	1710.1	1757.8	2061.3	2505.4	3184.4	3582.5	3571.6	3357.5	3177.7	2948.6	2644.2
67.5°	1166.6	1191.6	1464.3	1971.9	2792.2	3406.0	3402.7	3228.7	2977.9	2547.2	2074.7
70°	688.2	706.6	908.2	1376.5	2145.8	2926.0	2970.3	2907.6	2471.9	1829.7	1321.3
72.5°	214.1	224.9	400.6	764.3	1406.6	2279.6	2337.3	2292.1	1799.6	1143.1	732.5
75°	80.3	83.6	132.1	332.0	699.9	1457.6	1475.1	1527.8	1096.3	603.8	320.3
77.5°	44.3	45.2	65.2	124.6	307.7	715.8	732.5	725.9	582.9	285.2	102.0
80°	21.7	22.6	31.8	55.2	119.6	202.4	240.0	316.9	205.7	140.5	32.6
82.5°	7.5	6.7	14.2	25.1	40.1	54.4	61.0	87.8	86.1	76.9	11.7
85°	0.0	0.0	0.8	0.8	0.8	1.7	1.7	10.9	21.7	25.1	3.3
87.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7
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°	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9	388.9
2.5°	388.9	387.2	381.3	375.5	371.3	366.3	365.4	362.1	361.3	361.3	361.3
5°	393.0	388.0	377.1	367.9	359.6	352.1	348.7	345.4	342.9	342.0	342.0
7.5°	402.2	394.7	377.1	363.8	351.2	342.0	337.0	333.7	331.2	331.2	331.2
10°	415.6	403.9	382.2	363.8	348.7	337.0	329.5	324.5	321.1	320.3	321.1
12.5°	432.3	417.3	390.5	367.9	350.4	335.3	319.4	290.2	270.9	260.1	258.4
15°	448.2	430.7	399.7	373.8	352.9	319.4	261.7	216.6	186.5	177.3	175.6
17.5°	465.8	447.4	412.3	382.2	343.7	257.6	186.5	148.9	143.0	144.7	144.7
20°	487.5	465.8	425.6	390.5	296.0	183.1	136.3	131.3	133.0	136.3	136.3
22.5°	512.6	489.2	444.0	385.5	225.8	133.8	124.6	125.4	127.1	130.5	130.5
25°	545.2	521.0	464.1	347.9	157.2	117.1	117.9	118.7	121.3	124.6	125.4
27.5°	593.7	564.5	488.4	291.8	118.7	108.7	109.5	112.1	114.6	118.7	118.7
30°	645.6	609.6	510.1	224.9	103.7	99.5	100.3	102.9	107.0	110.4	112.1
32.5°	668.2	636.4	514.3	153.9	96.2	92.0	90.3	92.8	96.2	99.5	100.3
35°	680.7	667.3	494.2	111.2	90.3	85.3	82.0	81.1	82.0	84.5	84.5
37.5°	742.6	733.4	454.1	95.3	84.5	79.4	74.4	70.2	68.6	67.7	68.6
40°	861.3	841.3	401.4	87.8	79.4	73.6	66.9	60.2	54.4	51.8	51.8
42.5°	1123.1	1021.9	326.1	82.8	74.4	67.7	57.7	48.5	41.8	40.1	40.1
45°	1404.9	1246.0	245.0	78.6	69.4	61.0	48.5	38.5	32.6	30.9	30.9
47.5°	1675.8	1411.6	171.4	73.6	63.6	53.5	40.1	30.9	26.8	25.9	25.9
50°	1960.1	1555.4	119.6	67.7	57.7	46.0	32.6	25.1	22.6	22.6	22.6
52.5°	2236.9	1661.6	87.8	61.9	50.2	38.5	27.6	22.6	20.9	20.9	20.9
55°	2446.0	1702.6	66.9	54.4	42.6	32.6	25.1	21.7	20.1	19.2	19.2
57.5°	2585.7	1668.3	54.4	45.2	36.0	28.4	22.6	20.1	18.4	17.6	17.6
60°	2582.3	1554.6	43.5	36.8	29.3	24.3	20.9	18.4	16.7	15.9	15.9
62.5°	2430.9	1369.8	34.3	29.3	24.3	20.9	18.4	16.7	15.1	14.2	13.4
64°	2282.9	1255.2	29.3	25.1	21.7	19.2	16.7	15.1	13.4	11.7	11.7
65°	2122.4	1146.5	26.8	22.6	19.2	17.6	15.9	14.2	11.7	10.0	10.0
67.5°	1613.9	848.8	21.7	17.6	15.1	14.2	12.5	10.9	8.4	6.7	6.7
70°	1047.8	549.4	18.4	14.2	12.5	12.5	11.7	9.2	6.7	5.9	5.0
72.5°	536.9	273.5	15.1	11.7	10.9	10.9	10.0	7.5	5.9	5.0	4.2
75°	227.5	111.2	12.5	10.0	9.2	8.4	7.5	6.7	5.0	4.2	4.2
77.5°	79.4	41.8	11.7	10.0	7.5	6.7	6.7	6.7	6.7	5.9	5.0
80°	26.8	15.9	7.5	7.5	8.4	9.2	9.2	8.4	9.2	7.5	5.9
82.5°	10.9	5.9	2.5	3.3	5.9	6.7	7.5	7.5	7.5	5.9	5.0
85°	2.5	1.7	1.7	2.5	2.5	3.3	3.3	4.2	4.2	3.3	3.3
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.5	1.7	2.5	2.5	2.5
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)