

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: P401897

Luminaire Tested: **ENT-SA1F-750-U-T4W-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401897
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-SA1F-750-U-T4W-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 5000K, 1200mA 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: 5806 lumens
Efficiency: N/A
Efficacy: 87.8 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 - G2

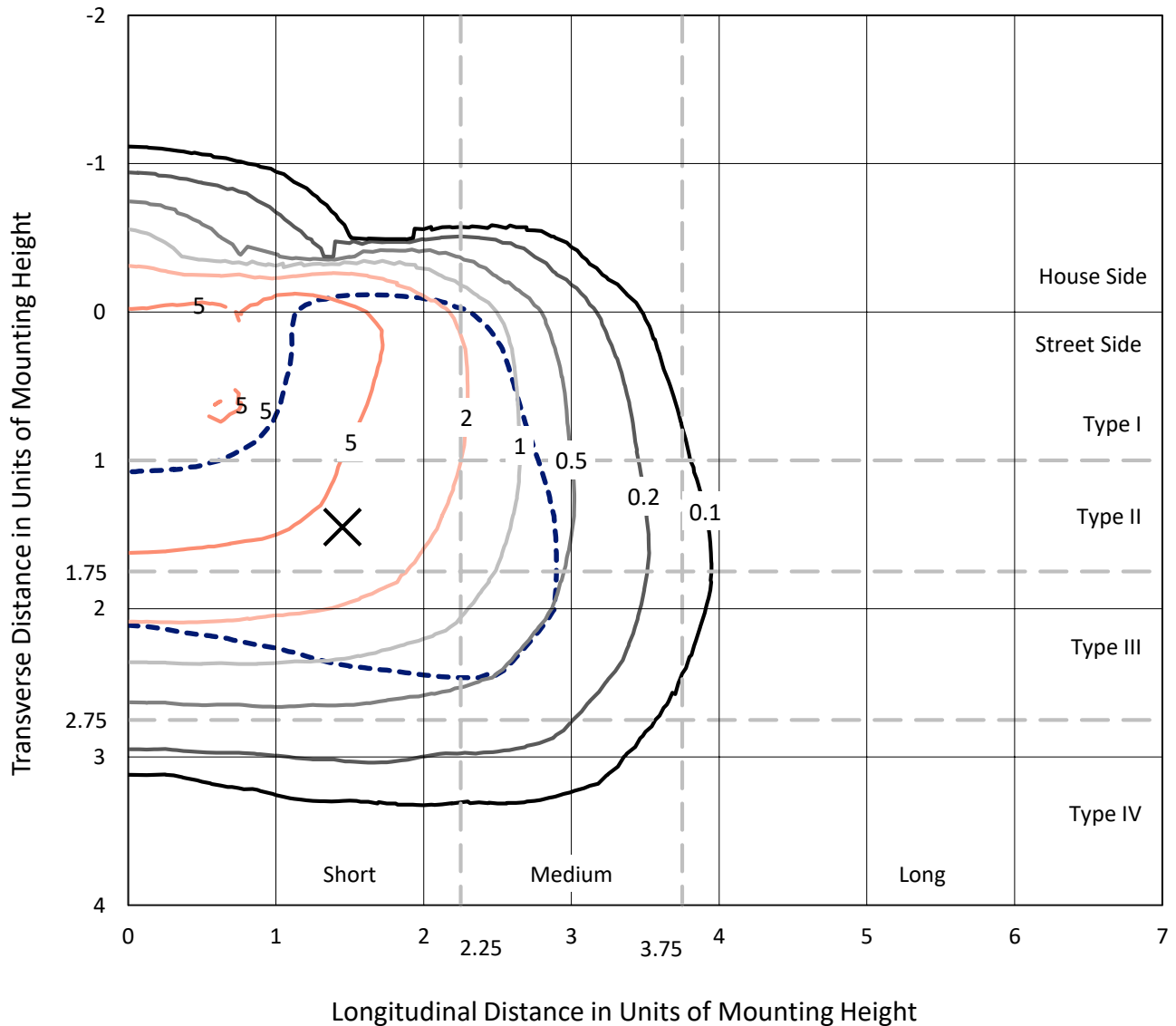
Input Watts (W): 66.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

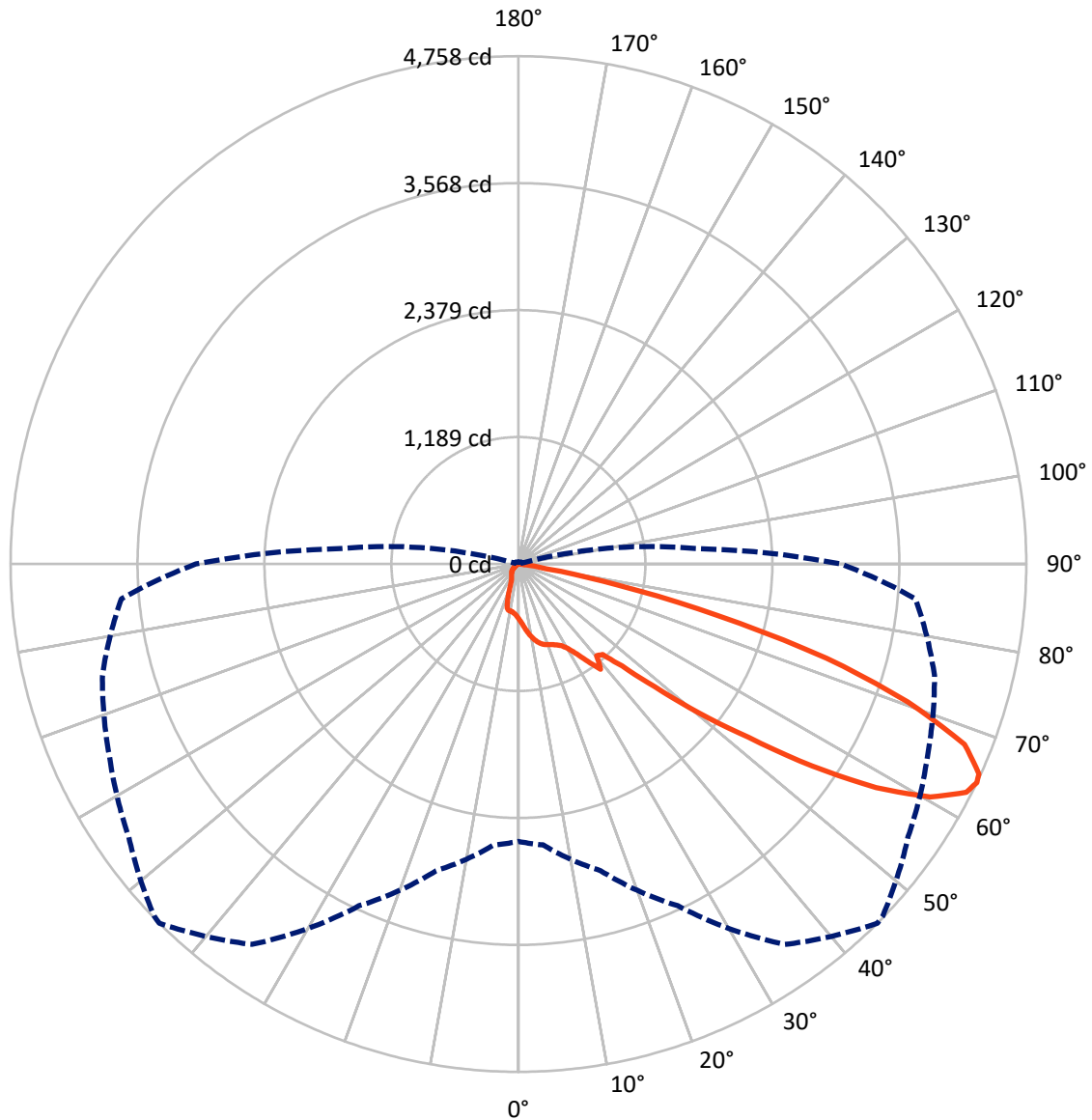
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 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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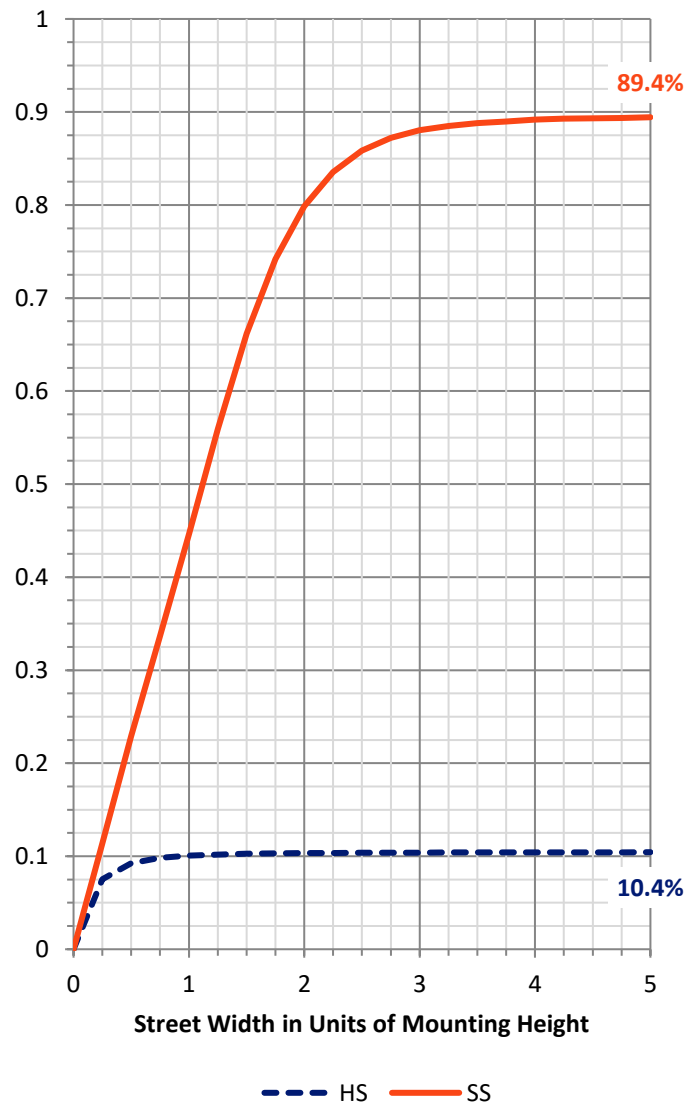
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	612.6	0.0	612.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5193.4	0.0	5193.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	5806.0	0.0	5806.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	0.9
10°-20°	162.7	2.8
20°-30°	264.9	4.6
30°-40°	420.9	7.2
40°-50°	801.7	13.8
50°-60°	1652.0	28.5
60°-70°	1845.1	31.8
70°-80°	582.8	10.0
80°-90°	23.7	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°	5806.0	100.0
0°-180°	5806.0	100.0



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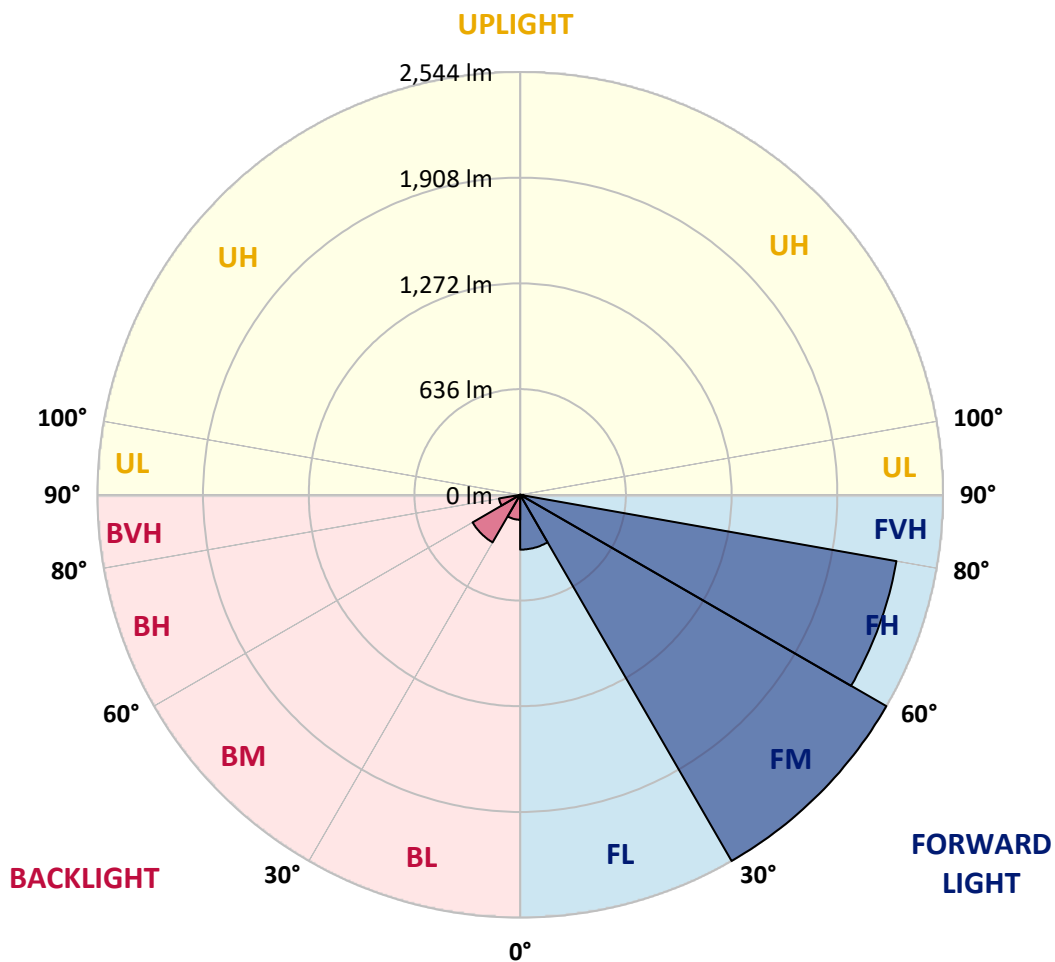
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.8	5.7			
FM	(30°-60°)	2544.0	43.8			
FH	(60°-80°)	2298.7	39.6			G2/5000
FVH	(80°-90°)	20.9	0.4			G1/100
BL	(0°-30°)	150.1	2.6	B1/500		
BM	(30°-60°)	330.6	5.7	B1/1000		
BH	(60°-80°)	129.1	2.2	B1/500		G1/500
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6
2.5°	567.8	570.0	566.6	562.2	557.8	550.0	551.1	541.2	533.4	527.9	519.1
5°	639.7	638.6	631.9	622.0	612.0	597.6	595.4	579.9	563.3	545.6	529.0
7.5°	712.7	709.4	702.8	689.5	670.7	651.9	646.3	624.2	599.8	573.3	544.5
10°	772.5	770.3	762.5	748.1	726.0	697.2	697.2	666.2	634.2	602.1	567.8
12.5°	821.2	819.0	810.1	792.4	765.9	740.4	737.1	709.4	674.0	636.4	594.3
15°	851.1	848.9	838.9	819.0	795.7	772.5	769.2	742.6	710.5	667.4	618.7
17.5°	858.8	856.6	848.9	831.2	813.4	793.5	789.1	765.9	738.2	693.9	644.1
20°	855.5	851.1	846.6	832.3	817.9	804.6	802.4	785.8	761.4	723.8	670.7
22.5°	846.6	842.2	838.9	828.9	821.2	820.1	817.9	807.9	792.4	760.3	710.5
25°	843.3	840.0	836.7	830.0	828.9	840.0	838.9	837.8	831.2	803.5	751.5
27.5°	862.1	861.0	853.3	842.2	847.8	866.6	867.7	873.2	868.8	851.1	811.2
30°	928.5	923.0	905.3	881.0	895.3	919.7	924.1	941.8	942.9	945.1	890.9
32.5°	1018.2	1009.3	979.5	948.5	957.3	1002.7	1003.8	1031.5	1090.1	1053.6	934.1
35°	1080.2	1069.1	1023.7	1007.1	1051.4	1123.3	1133.3	1189.7	1194.2	1061.4	930.8
37.5°	1253.9	1237.3	1154.3	1053.6	1096.8	1251.7	1262.8	1252.8	1159.8	1050.3	978.3
40°	1486.3	1470.8	1396.7	1227.4	1105.6	1128.9	1134.4	1164.3	1182.0	1127.8	1131.1
42.5°	1788.5	1768.5	1692.2	1485.2	1244.0	1158.7	1169.8	1230.7	1346.9	1372.3	1502.9
45°	2097.2	2086.2	2008.7	1785.1	1496.3	1362.4	1367.9	1442.1	1650.1	1810.6	1921.3
47.5°	2399.4	2401.6	2335.2	2145.9	1863.7	1715.4	1708.8	1805.1	2068.5	2182.5	2295.4
50°	2825.5	2823.3	2704.8	2587.5	2367.3	2191.3	2180.3	2234.5	2487.9	2530.0	2704.8
52.5°	3310.2	3308.0	3129.8	3074.5	2981.5	2698.2	2728.1	2681.6	2864.2	2939.5	3187.4
55°	3540.4	3520.5	3445.2	3515.0	3625.6	3341.2	3336.8	3159.7	3302.5	3366.7	3598.0
57.5°	3517.2	3524.9	3596.9	3828.2	4191.2	3953.2	3959.9	3631.2	3714.2	3754.0	3923.3
60°	3385.5	3391.0	3558.1	3943.3	4473.4	4432.4	4409.2	4071.6	4017.4	4000.8	4081.6
62.5°	3009.2	3011.4	3282.6	3777.3	4471.2	4709.1	4687.0	4381.5	4212.2	4106.0	3958.8
64°	2599.7	2641.8	2973.8	3532.7	4350.5	4757.8	4745.6	4456.8	4229.9	4035.1	3733.0
65°	2263.3	2326.3	2728.1	3315.8	4214.4	4741.2	4726.8	4443.5	4205.6	3902.3	3499.5
67.5°	1543.9	1577.1	1937.9	2609.7	3695.4	4507.7	4503.3	4273.1	3941.1	3371.1	2745.8
70°	910.8	935.2	1201.9	1821.7	2839.9	3872.4	3931.1	3848.1	3271.5	2421.5	1748.6
72.5°	283.3	297.7	530.1	1011.5	1861.5	3016.9	3093.3	3033.5	2381.7	1512.9	969.5
75°	106.2	110.7	174.9	439.4	926.3	1929.0	1952.3	2022.0	1450.9	799.1	423.9
77.5°	58.7	59.8	86.3	164.9	407.3	947.4	969.5	960.6	771.4	377.4	135.0
80°	28.8	29.9	42.1	73.0	158.3	267.8	317.6	419.4	272.3	185.9	43.2
82.5°	10.0	8.9	18.8	33.2	53.1	71.9	80.8	116.2	114.0	101.8	15.5
85°	0.0	0.0	1.1	1.1	1.1	2.2	2.2	14.4	28.8	33.2	4.4
87.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
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°	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6
2.5°	514.6	512.4	504.7	496.9	491.4	484.7	483.6	479.2	478.1	478.1	478.1
5°	520.2	513.5	499.1	487.0	475.9	465.9	461.5	457.1	453.8	452.7	452.7
7.5°	532.3	522.4	499.1	481.4	464.8	452.7	446.0	441.6	438.3	438.3	438.3
10°	550.0	534.5	505.8	481.4	461.5	446.0	436.1	429.4	425.0	423.9	425.0
12.5°	572.2	552.3	516.8	487.0	463.7	443.8	422.8	384.0	358.6	344.2	342.0
15°	593.2	570.0	529.0	494.7	467.0	422.8	346.4	286.6	246.8	234.6	232.4
17.5°	616.4	592.1	545.6	505.8	454.9	340.9	246.8	197.0	189.3	191.5	191.5
20°	645.2	616.4	563.3	516.8	391.8	242.4	180.4	173.8	176.0	180.4	180.4
22.5°	678.4	647.4	587.7	510.2	298.8	177.1	164.9	166.0	168.2	172.6	172.6
25°	721.6	689.5	614.2	460.4	208.1	154.9	156.0	157.2	160.5	164.9	166.0
27.5°	785.8	747.0	646.3	386.2	157.2	143.9	145.0	148.3	151.6	157.2	157.2
30°	854.4	806.8	675.1	297.7	137.2	131.7	132.8	136.1	141.7	146.1	148.3
32.5°	884.3	842.2	680.6	203.6	127.3	121.7	119.5	122.8	127.3	131.7	132.8
35°	900.9	883.2	654.1	147.2	119.5	112.9	108.5	107.4	108.5	111.8	111.8
37.5°	982.8	970.6	601.0	126.2	111.8	105.1	98.5	93.0	90.8	89.6	90.8
40°	1139.9	1113.4	531.2	116.2	105.1	97.4	88.5	79.7	71.9	68.6	68.6
42.5°	1486.3	1352.4	431.6	109.6	98.5	89.6	76.4	64.2	55.3	53.1	53.1
45°	1859.3	1649.0	324.3	104.0	91.9	80.8	64.2	50.9	43.2	40.9	40.9
47.5°	2217.9	1868.2	226.9	97.4	84.1	70.8	53.1	40.9	35.4	34.3	34.3
50°	2594.2	2058.5	158.3	89.6	76.4	60.9	43.2	33.2	29.9	29.9	29.9
52.5°	2960.5	2199.1	116.2	81.9	66.4	50.9	36.5	29.9	27.7	27.7	27.7
55°	3237.2	2253.3	88.5	71.9	56.4	43.2	33.2	28.8	26.6	25.5	25.5
57.5°	3422.0	2207.9	71.9	59.8	47.6	37.6	29.9	26.6	24.3	23.2	23.2
60°	3417.6	2057.4	57.5	48.7	38.7	32.1	27.7	24.3	22.1	21.0	21.0
62.5°	3217.3	1812.8	45.4	38.7	32.1	27.7	24.3	22.1	19.9	18.8	17.7
64°	3021.4	1661.2	38.7	33.2	28.8	25.5	22.1	19.9	17.7	15.5	15.5
65°	2808.9	1517.3	35.4	29.9	25.5	23.2	21.0	18.8	15.5	13.3	13.3
67.5°	2136.0	1123.3	28.8	23.2	19.9	18.8	16.6	14.4	11.1	8.9	8.9
70°	1386.7	727.1	24.3	18.8	16.6	16.6	15.5	12.2	8.9	7.7	6.6
72.5°	710.5	361.9	19.9	15.5	14.4	14.4	13.3	10.0	7.7	6.6	5.5
75°	301.0	147.2	16.6	13.3	12.2	11.1	10.0	8.9	6.6	5.5	5.5
77.5°	105.1	55.3	15.5	13.3	10.0	8.9	8.9	8.9	8.9	7.7	6.6
80°	35.4	21.0	10.0	10.0	11.1	12.2	12.2	11.1	12.2	10.0	7.7
82.5°	14.4	7.7	3.3	4.4	7.7	8.9	10.0	10.0	10.0	7.7	6.6
85°	3.3	2.2	2.2	3.3	3.3	4.4	4.4	5.5	5.5	4.4	4.4
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	3.3	2.2	3.3	3.3	3.3
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)