

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: P401435

Luminaire Tested: **ENT-SA1D-727-U-SL4-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1D-727-U-SL4-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3874 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

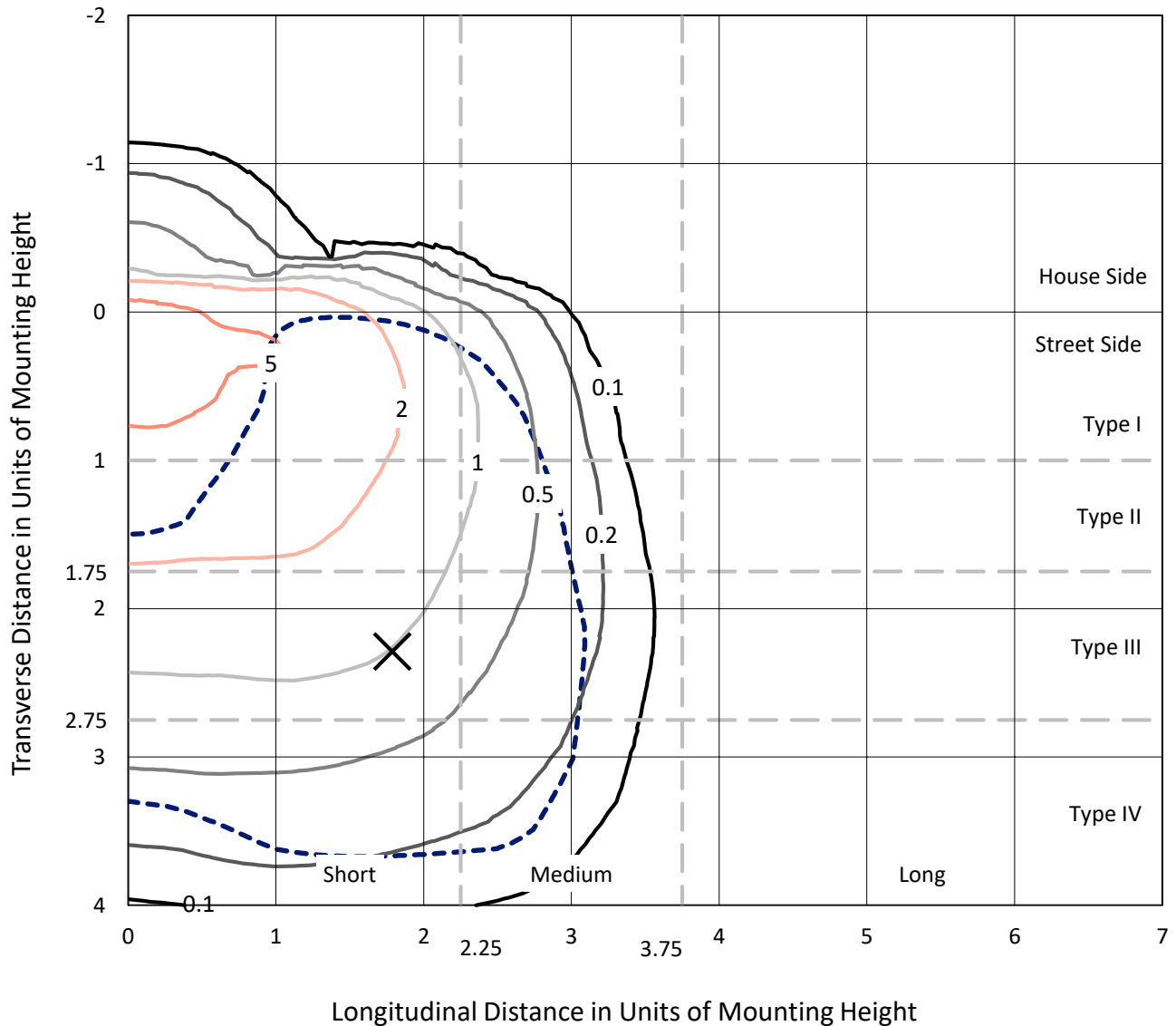
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

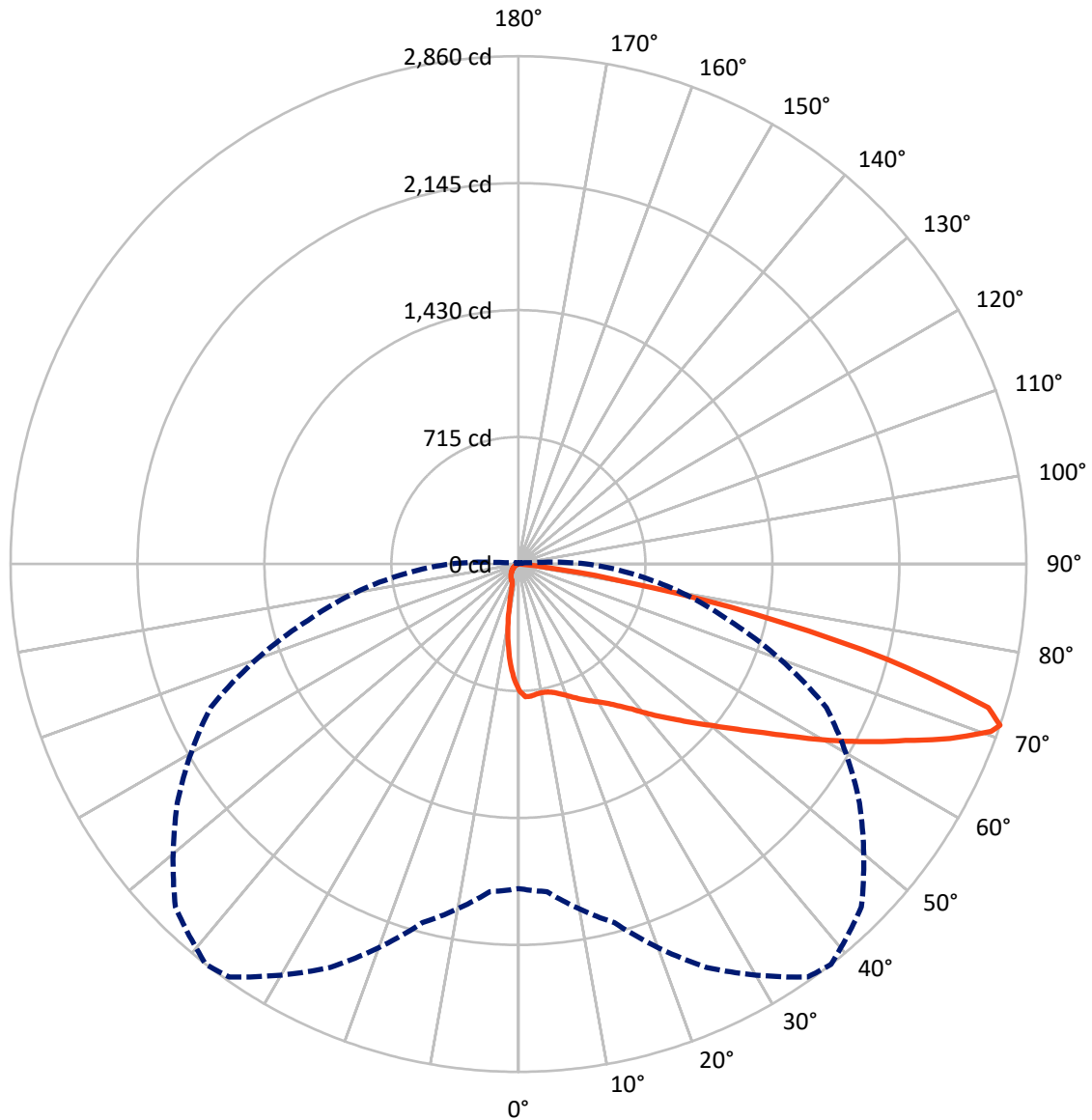


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	330.9	0.0	330.9
	% Fixture	8.5	0.0	8.5
Street Side	Lumens	3543.1	0.0	3543.1
	% Fixture	91.5	0.0	91.5
Total	Lumens	3874.0	0.0	3874.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	1.6
10°-20°	146.0	3.8
20°-30°	234.2	6.0
30°-40°	356.3	9.2
40°-50°	555.3	14.3
50°-60°	811.9	21.0
60°-70°	1041.4	26.9
70°-80°	636.6	16.4
80°-90°	32.0	0.8
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°	3874.0	100.0
0°-180°	3874.0	100.0



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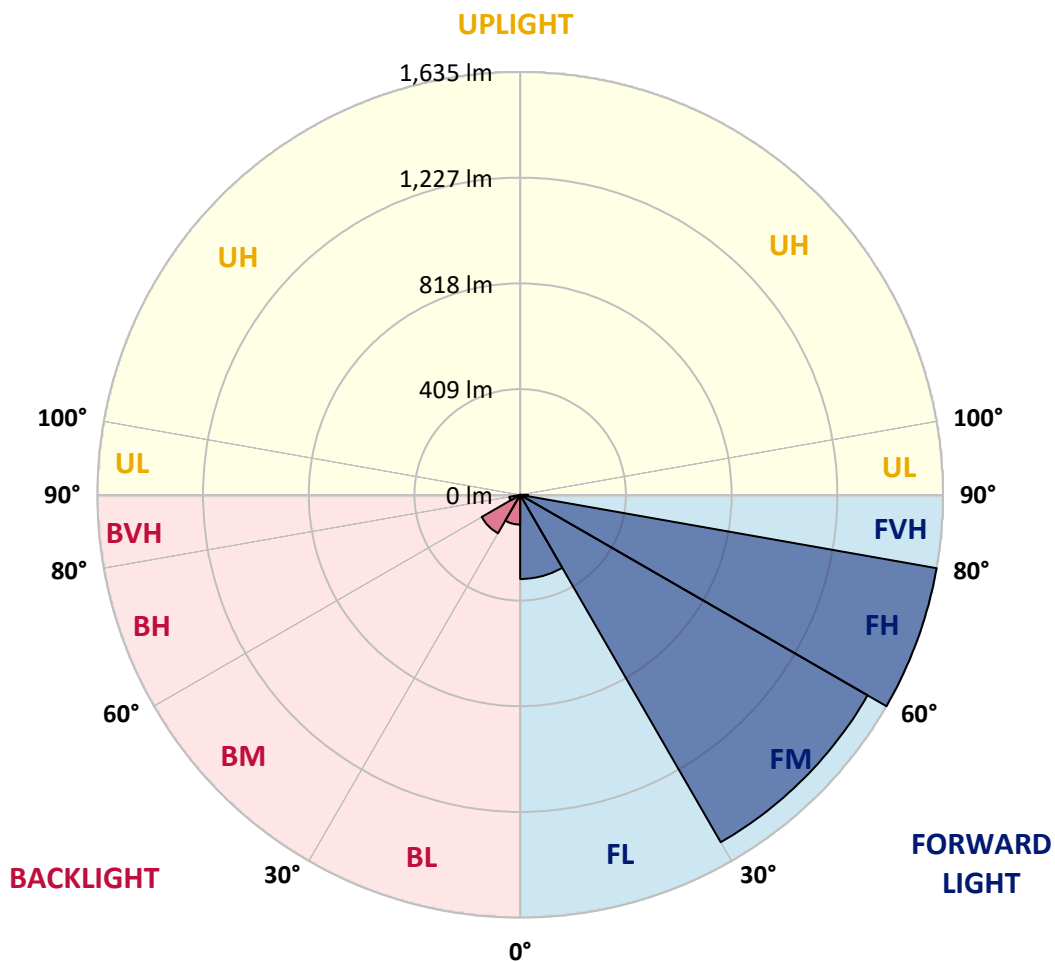
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	325.5	8.4			
FM	(30°-60°)	1551.6	40.1			
FH	(60°-80°)	1635.4	42.2			G1/1800
FVH	(80°-90°)	30.5	0.8			G1/100
BL	(0°-30°)	115.1	3.0	B1/500		
BM	(30°-60°)	171.9	4.4	B0/220		
BH	(60°-80°)	42.6	1.1	B0/110		G0/110
BVH	(80°-90°)	1.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2
2.5°	756.5	754.5	756.5	754.5	750.4	748.4	745.7	738.3	731.6	723.6	711.5
5°	757.8	756.5	756.5	753.8	749.1	747.1	744.4	737.0	728.3	716.2	698.1
7.5°	750.4	749.8	748.4	745.7	740.4	739.0	737.0	728.3	719.5	706.8	684.6
10°	738.3	739.7	739.0	739.0	737.0	735.7	734.3	724.2	714.9	700.1	676.6
12.5°	726.9	728.3	731.6	737.0	739.0	739.7	739.7	729.6	718.2	702.1	677.9
15°	719.5	722.2	731.6	742.4	748.4	750.4	752.4	741.7	728.3	710.8	685.3
17.5°	717.5	721.6	739.7	756.5	767.9	769.2	769.2	755.8	741.7	721.6	694.0
20°	724.2	729.6	753.1	776.6	790.7	792.0	789.4	771.9	755.1	733.0	701.4
22.5°	744.4	749.1	775.9	803.5	816.9	818.2	812.2	788.0	769.9	751.8	711.5
25°	779.3	782.0	810.8	837.0	844.4	846.4	836.3	807.5	786.7	769.9	725.6
27.5°	825.6	826.9	853.1	872.6	873.9	873.3	862.5	832.3	811.5	797.4	747.1
30°	873.9	875.9	897.4	910.2	904.8	902.1	892.7	860.5	841.7	831.0	777.9
32.5°	918.9	920.9	944.4	951.1	939.0	937.0	930.3	896.1	880.0	885.3	822.2
35°	963.2	963.2	990.1	993.4	982.7	982.7	982.7	941.7	939.0	957.2	884.0
37.5°	1002.8	1009.5	1037.7	1036.4	1034.4	1035.7	1039.7	1008.8	1018.2	1049.1	965.2
40°	1036.4	1045.1	1082.7	1086.0	1094.8	1102.1	1108.2	1092.1	1114.2	1164.6	1069.3
42.5°	1066.6	1076.6	1125.0	1140.4	1164.6	1174.6	1186.0	1182.0	1231.0	1323.0	1202.2
45°	1105.5	1116.2	1165.9	1202.8	1236.4	1249.8	1275.3	1292.8	1374.0	1478.7	1345.8
47.5°	1157.2	1164.6	1210.2	1268.6	1314.3	1338.4	1378.0	1423.0	1521.7	1643.8	1474.0
50°	1227.7	1228.3	1262.6	1338.4	1406.2	1432.4	1500.9	1559.2	1682.8	1789.5	1566.6
52.5°	1305.5	1301.5	1328.3	1424.3	1510.2	1545.8	1626.4	1707.6	1831.8	1894.9	1608.2
55°	1379.4	1381.4	1398.2	1515.6	1641.1	1675.4	1777.4	1860.0	1968.0	1959.3	1631.1
57.5°	1464.6	1463.9	1485.4	1615.6	1794.2	1833.8	1940.5	2008.3	2050.6	2005.6	1635.1
60°	1545.2	1543.1	1576.0	1735.1	1957.3	2015.7	2111.7	2109.0	2133.1	2035.1	1631.7
62.5°	1617.0	1621.7	1679.4	1874.1	2139.9	2202.9	2251.3	2217.7	2224.4	2069.4	1590.1
65°	1704.2	1713.0	1806.3	2042.5	2365.4	2395.6	2414.4	2360.0	2292.9	2041.9	1463.9
67.5°	1814.3	1840.5	1972.0	2290.9	2600.3	2621.1	2621.8	2445.9	2290.2	1902.9	1231.0
70°	1857.9	1885.5	2094.9	2487.5	2798.3	2824.5	2742.6	2432.5	2109.6	1490.1	831.0
71°	1827.7	1852.6	2091.5	2506.3	2839.3	2860.1	2731.9	2344.6	1913.0	1227.7	643.7
72.5°	1609.6	1674.0	1962.7	2388.2	2766.1	2766.8	2558.0	2137.2	1521.7	766.5	323.5
75°	869.2	947.1	1438.4	1817.7	2133.8	2150.6	1968.0	1484.1	736.3	198.7	78.5
77.5°	286.6	322.9	645.0	943.7	1338.4	1364.6	1203.5	659.1	232.2	67.1	40.9
80°	179.9	183.9	218.1	396.7	595.4	617.5	495.4	267.1	104.7	36.9	28.2
82.5°	30.2	36.2	102.7	116.8	210.1	166.5	112.8	136.3	49.0	16.8	24.2
85°	0.0	0.0	0.7	0.7	3.4	0.7	0.7	27.5	2.7	2.7	12.8
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2	714.2
2.5°	706.1	700.8	690.0	678.6	664.5	652.4	648.4	639.7	635.6	632.3	632.3
5°	686.7	677.3	654.4	630.9	608.1	584.0	561.8	541.0	530.9	516.8	523.6
7.5°	670.6	654.4	622.2	585.3	538.3	490.7	453.7	421.5	394.7	386.0	379.9
10°	659.1	639.0	592.0	535.6	467.2	399.4	342.3	289.3	258.4	239.6	239.6
12.5°	657.8	632.3	571.2	484.6	386.0	294.0	223.5	173.2	148.3	136.9	136.3
15°	662.5	631.6	552.4	438.3	311.4	204.1	139.6	117.5	111.4	110.1	110.1
17.5°	666.5	630.9	530.3	386.0	229.6	134.2	110.8	106.7	105.4	104.7	104.7
20°	670.6	627.6	504.8	326.9	162.4	109.4	103.4	101.4	100.7	100.0	100.0
22.5°	675.9	624.2	478.6	259.8	120.1	102.0	98.7	96.7	96.0	96.0	96.0
25°	683.3	622.2	446.4	196.7	103.4	96.7	93.3	92.0	92.0	91.3	91.3
27.5°	697.4	624.2	411.5	141.0	96.7	91.3	89.3	87.9	87.9	87.3	87.3
30°	716.9	630.3	367.8	110.1	91.3	85.9	83.9	83.2	82.6	82.6	82.6
32.5°	744.4	639.7	320.2	94.0	84.6	80.5	78.5	77.9	77.9	77.9	77.2
35°	786.7	659.1	261.8	85.9	78.5	74.5	72.5	72.5	72.5	71.8	72.5
37.5°	851.1	690.7	202.7	79.2	71.8	68.5	67.1	66.5	66.5	66.5	66.5
40°	932.3	741.7	147.7	73.2	65.8	62.4	61.1	60.4	59.7	59.7	59.7
42.5°	1037.0	798.1	107.4	66.5	60.4	57.1	55.7	54.4	53.0	52.4	52.4
45°	1145.8	865.2	83.9	61.1	55.0	52.4	51.0	49.0	47.0	45.0	45.0
47.5°	1251.2	916.9	71.8	55.0	50.3	47.7	46.3	43.6	40.3	38.3	38.3
50°	1317.6	933.0	64.4	49.7	45.6	43.6	41.6	38.3	33.6	31.5	31.5
52.5°	1338.4	903.5	57.7	45.0	41.6	39.6	36.9	32.2	27.5	24.8	24.8
55°	1346.5	846.4	51.0	41.6	37.6	34.9	31.5	26.8	22.2	19.5	19.5
57.5°	1336.4	765.9	45.6	37.6	33.6	30.9	26.8	21.5	16.8	14.8	14.8
60°	1302.2	649.1	40.9	33.6	29.5	26.2	22.2	16.8	12.8	10.1	10.7
62.5°	1209.5	502.1	35.6	28.2	25.5	22.2	17.5	12.8	8.1	6.7	6.7
65°	1061.9	347.7	30.2	23.5	21.5	18.1	13.4	8.7	4.7	4.0	4.0
67.5°	862.5	224.9	23.5	19.5	18.1	14.8	10.1	5.4	2.7	2.7	2.0
70°	541.7	111.4	18.8	14.8	14.8	11.4	7.4	3.4	2.0	2.0	2.0
71°	383.3	75.8	16.8	13.4	13.4	10.7	6.7	2.7	2.0	2.0	2.0
72.5°	173.2	47.7	14.1	12.1	11.4	8.7	6.0	2.7	2.7	2.7	2.7
75°	54.4	26.2	10.1	9.4	9.4	7.4	5.4	3.4	3.4	3.4	3.4
77.5°	36.2	20.1	6.7	6.0	7.4	7.4	5.4	4.0	4.0	4.0	4.0
80°	29.5	10.7	4.0	4.0	5.4	6.7	5.4	4.0	4.7	4.0	4.0
82.5°	28.9	5.4	1.3	2.0	3.4	4.0	4.0	3.4	4.0	4.0	4.0
85°	12.1	1.3	0.7	1.3	1.3	2.0	2.0	2.7	3.4	3.4	3.4
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	1.3	1.3	2.0	2.7	2.7
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)