

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: P401795

Luminaire Tested: **ENV-SA1F-727-U-SL4-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401795
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: ENV-SA1F-727-U-SL4-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 5343 lumens
Efficiency: N/A
Efficacy: 80.8 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 - 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

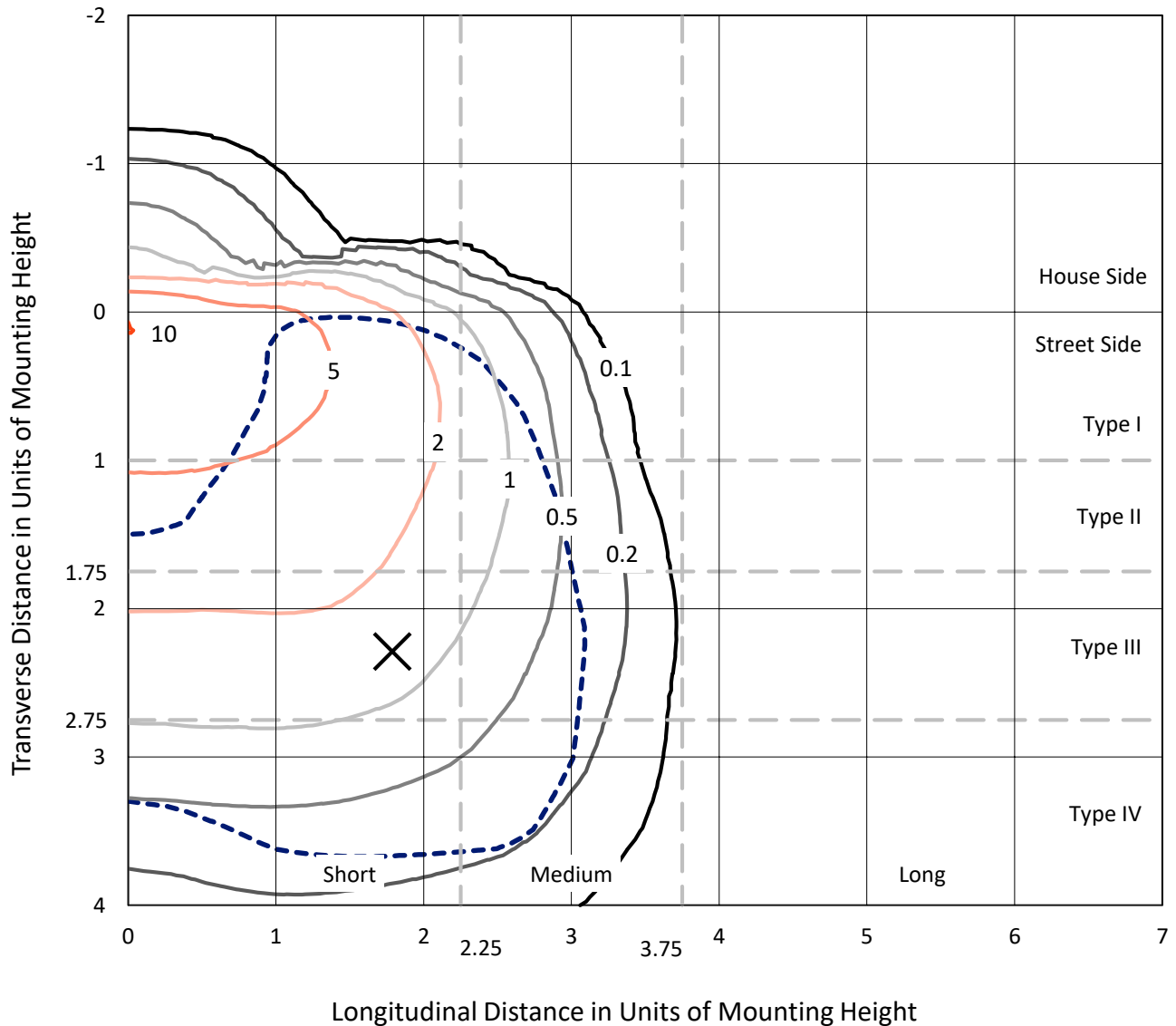


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

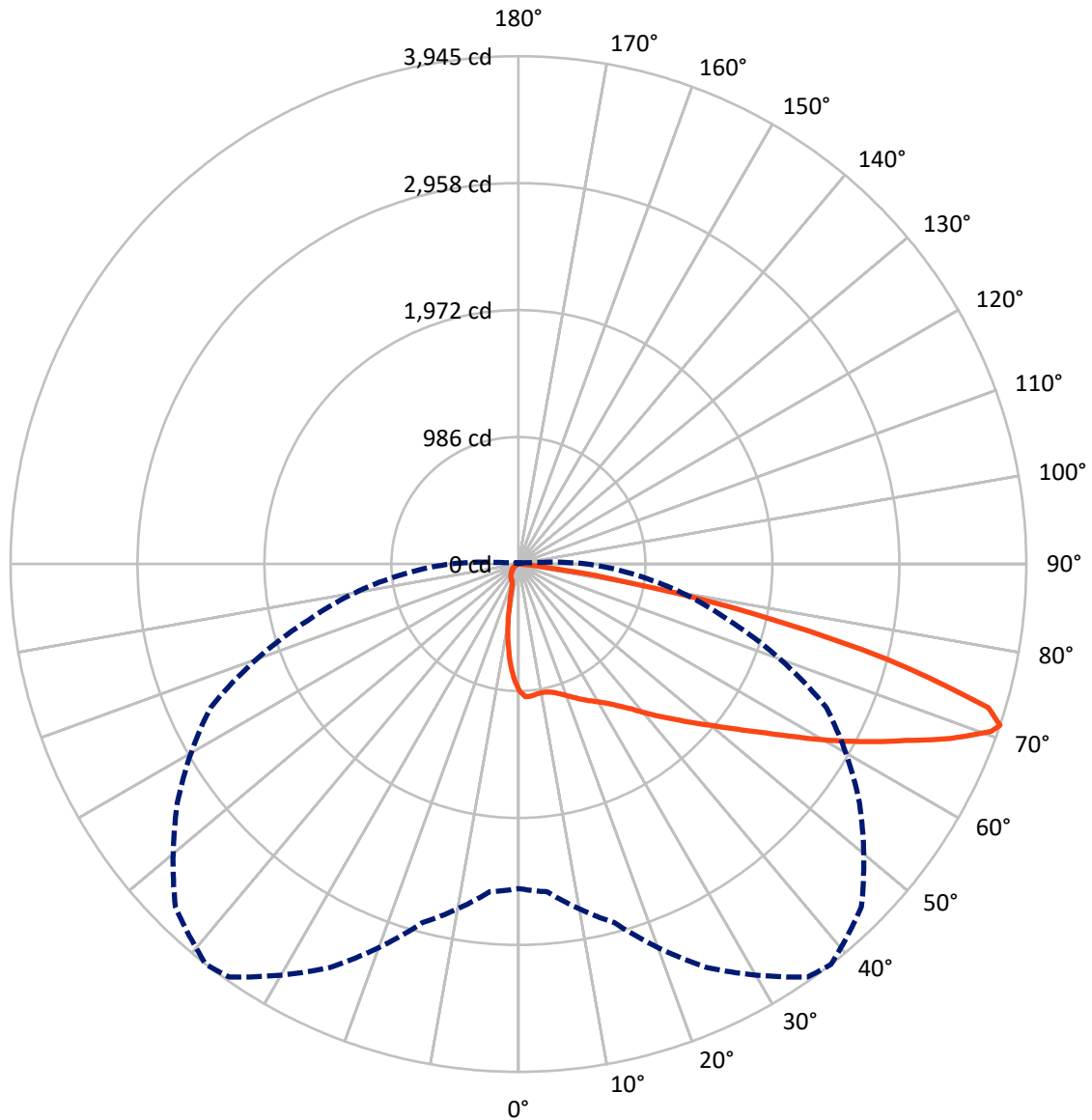


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Semi-Cutoff

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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	456.4	0.0	456.4
	% Fixture	8.5	0.0	8.5
Street Side	Lumens	4886.6	0.0	4886.6
	% Fixture	91.5	0.0	91.5
Total	Lumens	5343.0	0.0	5343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.6
10°-20°	201.4	3.8
20°-30°	323.0	6.0
30°-40°	491.4	9.2
40°-50°	765.8	14.3
50°-60°	1119.8	21.0
60°-70°	1436.3	26.9
70°-80°	877.9	16.4
80°-90°	44.1	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°	5343.0	100.0
0°-180°	5343.0	100.0

Coefficient of Utilization



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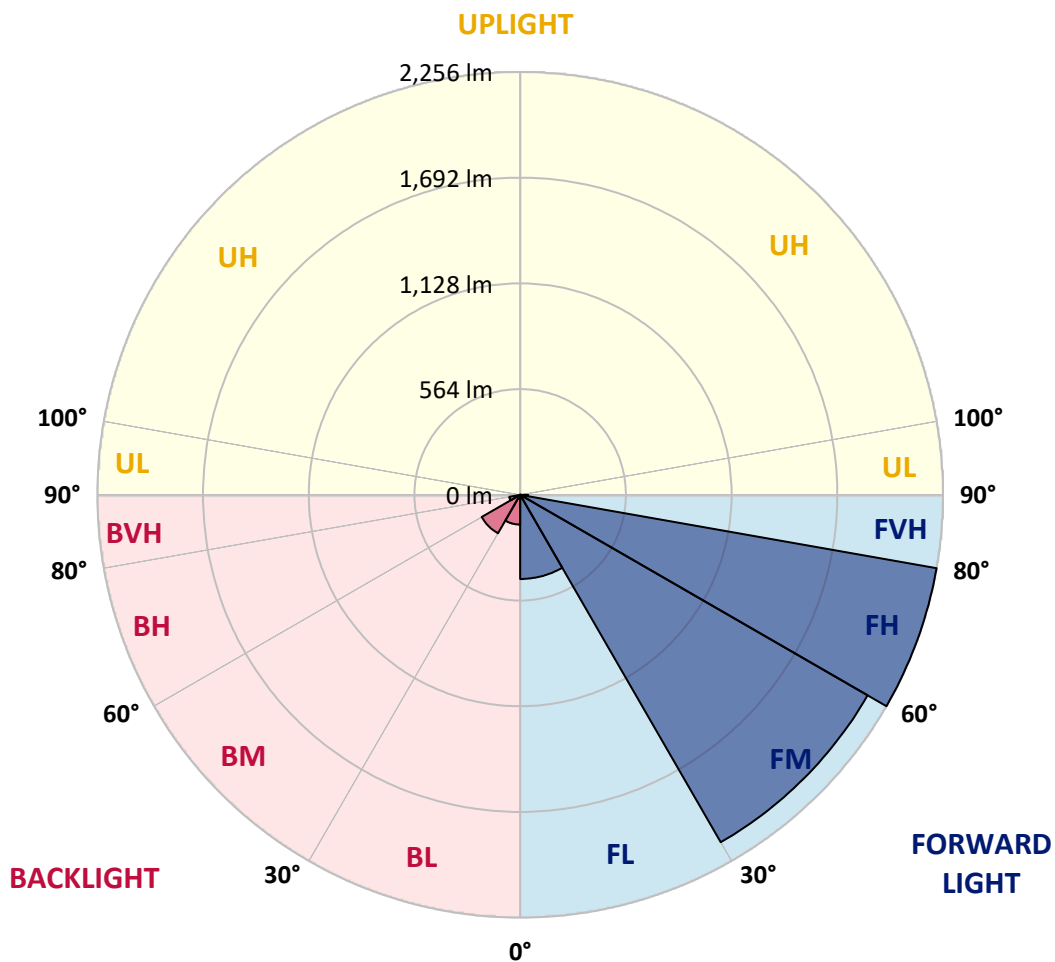
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	448.9	8.4			
FM	(30°-60°)	2139.9	40.1			
FH	(60°-80°)	2255.6	42.2			G2/5000
FVH	(80°-90°)	42.1	0.8			G1/100
BL	(0°-30°)	158.7	3.0	B1/500		
BM	(30°-60°)	237.1	4.4	B1/1000		
BH	(60°-80°)	58.7	1.1	B0/110		G0/110
BVH	(80°-90°)	2.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0
2.5°	1043.3	1040.5	1043.3	1040.5	1035.0	1032.2	1028.5	1018.3	1009.1	998.0	981.3
5°	1045.2	1043.3	1043.3	1039.6	1033.1	1030.4	1026.7	1016.5	1004.4	987.8	962.8
7.5°	1035.0	1034.1	1032.2	1028.5	1021.1	1019.2	1016.5	1004.4	992.4	974.8	944.3
10°	1018.3	1020.2	1019.2	1019.2	1016.5	1014.6	1012.8	998.9	985.9	965.6	933.2
12.5°	1002.6	1004.4	1009.1	1016.5	1019.2	1020.2	1020.2	1006.3	990.5	968.3	935.0
15°	992.4	996.1	1009.1	1023.9	1032.2	1035.0	1037.8	1022.9	1004.4	980.4	945.2
17.5°	989.6	995.2	1020.2	1043.3	1059.1	1060.9	1060.9	1042.4	1022.9	995.2	957.2
20°	998.9	1006.3	1038.7	1071.1	1090.5	1092.4	1088.7	1064.6	1041.5	1010.9	967.4
22.5°	1026.7	1033.1	1070.2	1108.1	1126.6	1128.5	1120.2	1086.8	1061.8	1036.8	981.3
25°	1074.8	1078.5	1118.3	1154.4	1164.6	1167.4	1153.5	1113.7	1085.0	1061.8	1000.7
27.5°	1138.7	1140.5	1176.6	1203.5	1205.3	1204.4	1189.6	1147.9	1119.2	1099.8	1030.4
30°	1205.3	1208.1	1237.7	1255.3	1247.9	1244.2	1231.2	1186.8	1160.9	1146.1	1072.9
32.5°	1267.3	1270.1	1302.5	1311.8	1295.1	1292.3	1283.1	1235.9	1213.7	1221.1	1134.0
35°	1328.4	1328.4	1365.5	1370.1	1355.3	1355.3	1355.3	1298.8	1295.1	1320.1	1219.2
37.5°	1383.1	1392.3	1431.2	1429.4	1426.6	1428.4	1434.0	1391.4	1404.4	1446.9	1331.2
40°	1429.4	1441.4	1493.2	1497.9	1509.9	1520.1	1528.4	1506.2	1536.7	1606.2	1474.7
42.5°	1471.0	1484.9	1551.5	1572.8	1606.2	1620.1	1635.8	1630.2	1697.8	1824.6	1658.0
45°	1524.7	1539.5	1608.0	1658.9	1705.2	1723.7	1758.9	1783.0	1895.0	2039.4	1856.1
47.5°	1596.0	1606.2	1669.1	1749.7	1812.6	1845.9	1900.6	1962.6	2098.7	2267.1	2032.9
50°	1693.2	1694.1	1741.3	1845.9	1939.4	1975.5	2070.0	2150.5	2320.8	2468.0	2160.7
52.5°	1800.6	1795.0	1832.0	1964.4	2082.9	2132.0	2243.1	2355.1	2526.4	2613.4	2218.1
55°	1902.4	1905.2	1928.3	2090.3	2263.4	2310.7	2451.4	2565.2	2714.3	2702.2	2249.6
57.5°	2020.0	2019.0	2048.7	2228.3	2474.5	2529.1	2676.3	2769.8	2828.2	2766.1	2255.1
60°	2131.1	2128.3	2173.6	2393.1	2699.5	2780.0	2912.4	2908.7	2942.0	2806.9	2250.5
62.5°	2230.1	2236.6	2316.2	2584.7	2951.3	3038.3	3104.9	3058.7	3067.9	2854.1	2193.1
65°	2350.5	2362.5	2491.2	2817.0	3262.3	3304.0	3329.9	3254.9	3162.3	2816.1	2019.0
67.5°	2502.3	2538.4	2719.8	3159.6	3586.3	3615.0	3616.0	3373.4	3158.6	2624.5	1697.8
70°	2562.5	2600.4	2889.2	3430.8	3859.4	3895.5	3782.6	3354.9	2909.6	2055.2	1146.1
71°	2520.8	2555.1	2884.6	3456.7	3915.9	3944.6	3767.8	3233.6	2638.4	1693.2	887.8
72.5°	2219.9	2308.8	2706.9	3293.8	3815.0	3815.9	3528.0	2947.6	2098.7	1057.2	446.2
75°	1198.8	1306.2	1983.9	2506.9	2942.9	2966.1	2714.3	2046.8	1015.5	274.0	108.3
77.5°	395.3	445.3	889.6	1301.6	1845.9	1882.0	1659.9	909.1	320.3	92.6	56.5
80°	248.1	253.7	300.9	547.1	821.1	851.7	683.2	368.4	144.4	50.9	38.9
82.5°	41.7	50.0	141.6	161.1	289.8	229.6	155.5	187.9	67.6	23.1	33.3
85°	0.0	0.0	0.9	0.9	4.6	0.9	0.9	38.0	3.7	3.7	17.6
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	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°	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0	985.0
2.5°	973.9	966.5	951.7	935.9	916.5	899.8	894.3	882.2	876.7	872.1	872.1
5°	947.0	934.1	902.6	870.2	838.7	805.4	774.8	746.2	732.3	712.8	722.1
7.5°	924.8	902.6	858.2	807.2	742.4	676.7	625.8	581.4	544.3	532.3	524.0
10°	909.1	881.3	816.5	738.7	644.3	550.8	472.1	399.0	356.4	330.5	330.5
12.5°	907.2	872.1	787.8	668.4	532.3	405.5	308.3	238.8	204.6	188.9	187.9
15°	913.7	871.1	761.9	604.5	429.5	281.4	192.6	162.0	153.7	151.8	151.8
17.5°	919.3	870.2	731.3	532.3	316.6	185.1	152.7	147.2	145.3	144.4	144.4
20°	924.8	865.6	696.2	450.8	224.0	150.9	142.6	139.8	138.9	137.9	137.9
22.5°	932.2	860.9	660.1	358.3	165.7	140.7	136.1	133.3	132.4	132.4	132.4
25°	942.4	858.2	615.6	271.2	142.6	133.3	128.7	126.8	126.8	125.9	125.9
27.5°	961.8	860.9	567.5	194.4	133.3	125.9	123.1	121.3	121.3	120.3	120.3
30°	988.7	869.3	507.3	151.8	125.9	118.5	115.7	114.8	113.9	113.9	113.9
32.5°	1026.7	882.2	441.6	129.6	116.6	111.1	108.3	107.4	107.4	107.4	106.5
35°	1085.0	909.1	361.0	118.5	108.3	102.8	100.0	100.0	100.0	99.1	100.0
37.5°	1173.8	952.6	279.6	109.2	99.1	94.4	92.6	91.6	91.6	91.6	91.6
40°	1285.9	1022.9	203.7	100.9	90.7	86.1	84.2	83.3	82.4	82.4	82.4
42.5°	1430.3	1100.7	148.1	91.6	83.3	78.7	76.8	75.0	73.1	72.2	72.2
45°	1580.2	1193.3	115.7	84.2	75.9	72.2	70.4	67.6	64.8	62.0	62.0
47.5°	1725.6	1264.6	99.1	75.9	69.4	65.7	63.9	60.2	55.5	52.8	52.8
50°	1817.2	1286.8	88.9	68.5	63.0	60.2	57.4	52.8	46.3	43.5	43.5
52.5°	1845.9	1246.1	79.6	62.0	57.4	54.6	50.9	44.4	38.0	34.3	34.3
55°	1857.0	1167.4	70.4	57.4	51.8	48.1	43.5	37.0	30.5	26.8	26.8
57.5°	1843.2	1056.3	63.0	51.8	46.3	42.6	37.0	29.6	23.1	20.4	20.4
60°	1795.9	895.2	56.5	46.3	40.7	36.1	30.5	23.1	17.6	13.9	14.8
62.5°	1668.2	692.5	49.1	38.9	35.2	30.5	24.1	17.6	11.1	9.3	9.3
65°	1464.5	479.5	41.7	32.4	29.6	25.0	18.5	12.0	6.5	5.6	5.6
67.5°	1189.6	310.1	32.4	26.8	25.0	20.4	13.9	7.4	3.7	3.7	2.8
70°	747.1	153.7	25.9	20.4	20.4	15.7	10.2	4.6	2.8	2.8	2.8
71°	528.6	104.6	23.1	18.5	18.5	14.8	9.3	3.7	2.8	2.8	2.8
72.5°	238.8	65.7	19.4	16.7	15.7	12.0	8.3	3.7	3.7	3.7	3.7
75°	75.0	36.1	13.9	13.0	13.0	10.2	7.4	4.6	4.6	4.6	4.6
77.5°	50.0	27.8	9.3	8.3	10.2	10.2	7.4	5.6	5.6	5.6	5.6
80°	40.7	14.8	5.6	5.6	7.4	9.3	7.4	5.6	6.5	5.6	5.6
82.5°	39.8	7.4	1.9	2.8	4.6	5.6	5.6	4.6	5.6	5.6	5.6
85°	16.7	1.9	0.9	1.9	1.9	2.8	2.8	3.7	4.6	4.6	4.6
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	1.9	1.9	2.8	3.7	3.7
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)