

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: P401615

Luminaire Tested: **ENV-SA1E-727-U-SL4-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401615
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-SA1E-727-U-SL4-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 4827 lumens
Efficiency: N/A
Efficacy: 84.4 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

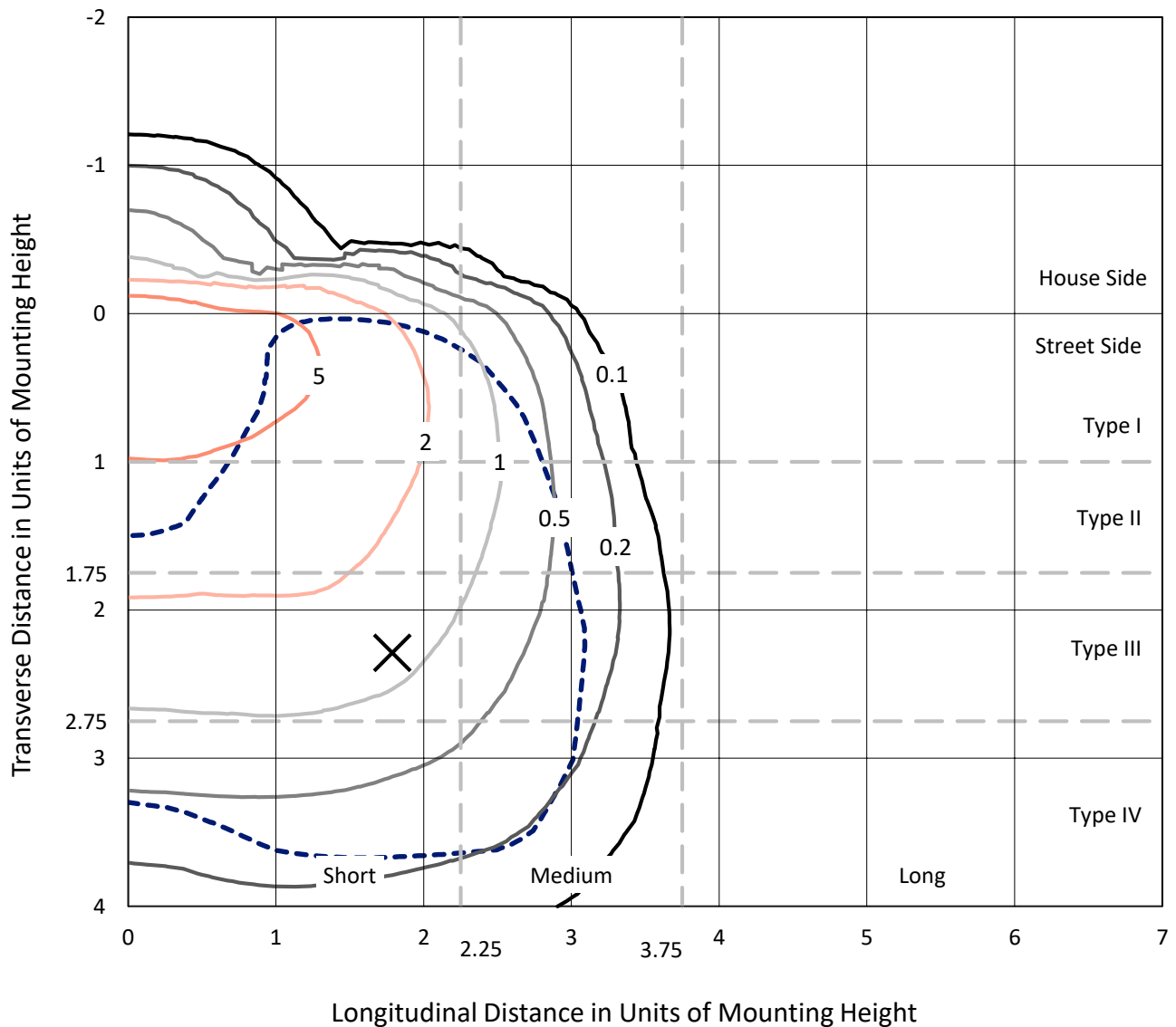
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

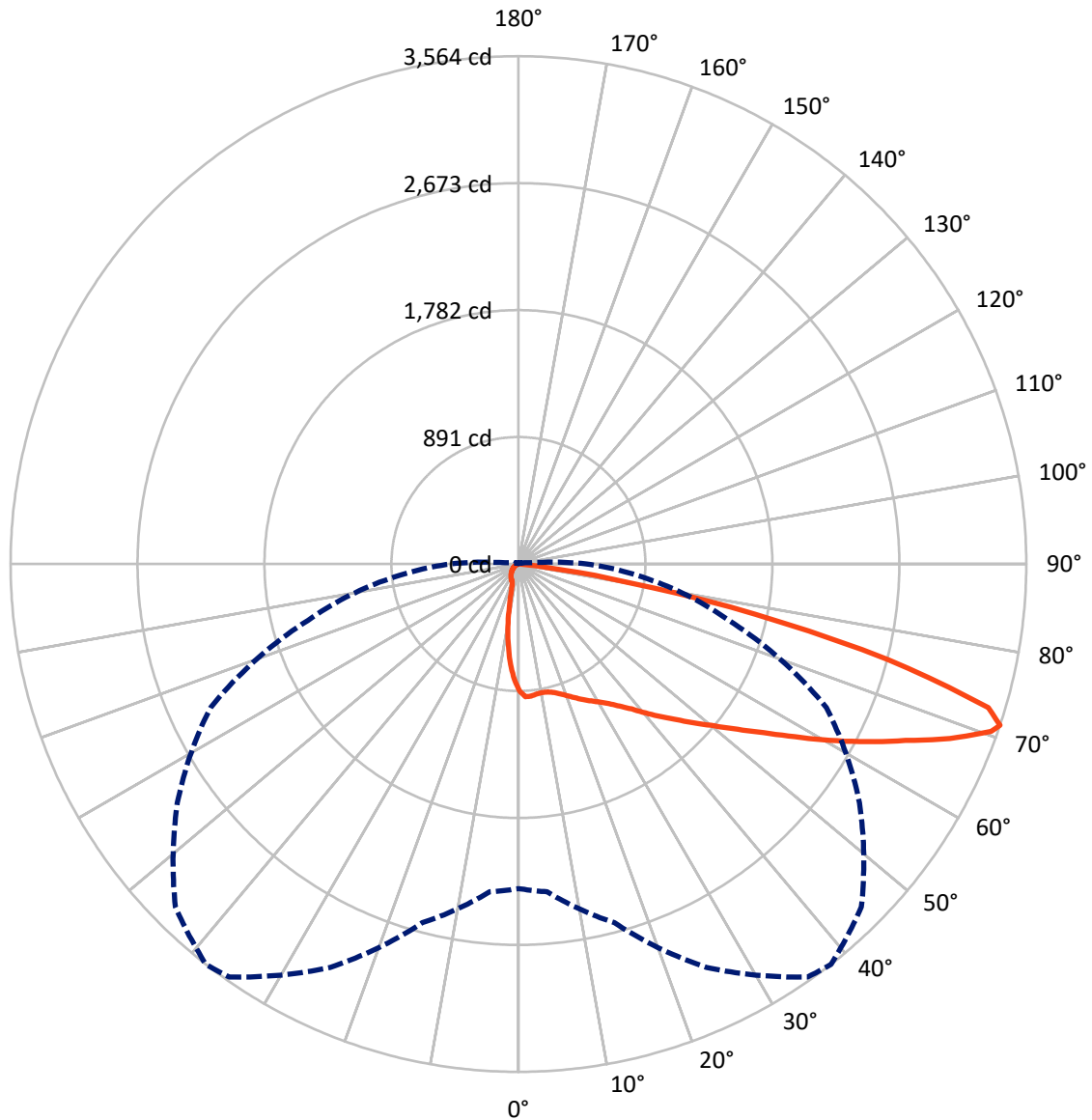
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 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	412.3	0.0	412.3
	% Fixture	8.5	0.0	8.5
Street Side	Lumens	4414.7	0.0	4414.7
	% Fixture	91.5	0.0	91.5
Total	Lumens	4827.0	0.0	4827.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	1.6
10°-20°	182.0	3.8
20°-30°	291.8	6.0
30°-40°	443.9	9.2
40°-50°	691.8	14.3
50°-60°	1011.7	21.0
60°-70°	1297.6	26.9
70°-80°	793.1	16.4
80°-90°	39.8	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°	4827.0	100.0
0°-180°	4827.0	100.0



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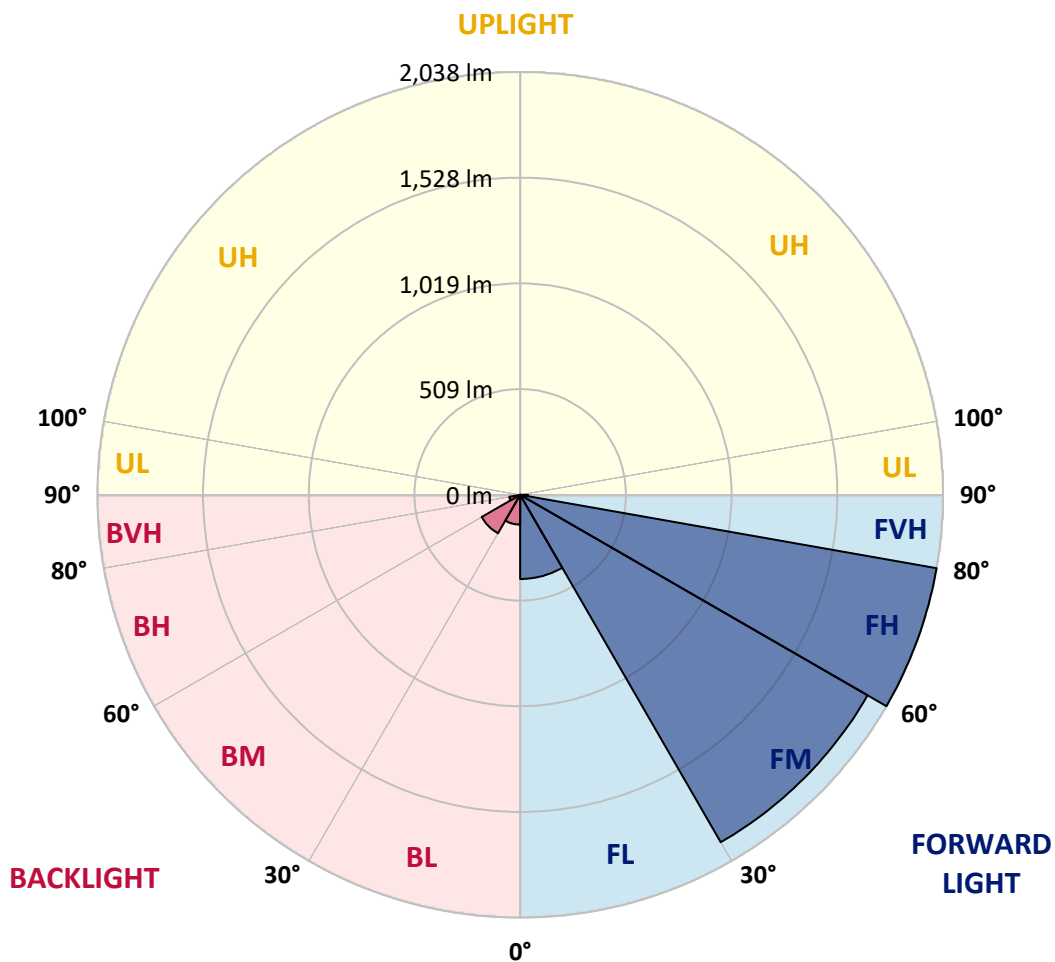
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	405.6	8.4			
FM	(30°-60°)	1933.3	40.1			
FH	(60°-80°)	2037.8	42.2			G2/5000
FVH	(80°-90°)	38.1	0.8			G1/100
BL	(0°-30°)	143.4	3.0	B1/500		
BM	(30°-60°)	214.2	4.4	B0/220		
BH	(60°-80°)	53.0	1.1	B0/110		G0/110
BVH	(80°-90°)	1.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9
2.5°	942.6	940.0	942.6	940.0	935.0	932.5	929.2	920.0	911.6	901.6	886.5
5°	944.2	942.6	942.6	939.2	933.4	930.8	927.5	918.3	907.4	892.4	869.8
7.5°	935.0	934.2	932.5	929.2	922.5	920.8	918.3	907.4	896.6	880.7	853.1
10°	920.0	921.6	920.8	920.8	918.3	916.6	915.0	902.4	890.7	872.3	843.0
12.5°	905.8	907.4	911.6	918.3	920.8	921.6	921.6	909.1	894.9	874.8	844.7
15°	896.6	899.9	911.6	925.0	932.5	935.0	937.5	924.2	907.4	885.7	853.9
17.5°	894.0	899.1	921.6	942.6	956.8	958.4	958.4	941.7	924.2	899.1	864.8
20°	902.4	909.1	938.4	967.6	985.2	986.9	983.5	961.8	940.9	913.3	874.0
22.5°	927.5	933.4	966.8	1001.1	1017.8	1019.5	1012.0	981.9	959.3	936.7	886.5
25°	971.0	974.3	1010.3	1042.9	1052.1	1054.6	1042.1	1006.1	980.2	959.3	904.1
27.5°	1028.7	1030.4	1063.0	1087.2	1088.9	1088.1	1074.7	1037.1	1011.1	993.6	930.8
30°	1088.9	1091.4	1118.2	1134.1	1127.4	1124.0	1112.3	1072.2	1048.8	1035.4	969.3
32.5°	1145.0	1147.5	1176.7	1185.1	1170.0	1167.5	1159.2	1116.5	1096.4	1103.1	1024.5
35°	1200.1	1200.1	1233.6	1237.8	1224.4	1224.4	1224.4	1173.4	1170.0	1192.6	1101.5
37.5°	1249.5	1257.9	1293.0	1291.3	1288.8	1290.5	1295.5	1257.0	1268.7	1307.2	1202.7
40°	1291.3	1302.2	1349.0	1353.2	1364.1	1373.3	1380.8	1360.7	1388.3	1451.1	1332.3
42.5°	1328.9	1341.5	1401.7	1420.9	1451.1	1463.6	1477.8	1472.8	1533.8	1648.4	1497.9
45°	1377.5	1390.8	1452.7	1498.7	1540.5	1557.3	1589.0	1610.8	1712.0	1842.5	1676.9
47.5°	1441.9	1451.1	1507.9	1580.7	1637.6	1667.7	1717.0	1773.0	1896.0	2048.2	1836.6
50°	1529.7	1530.5	1573.2	1667.7	1752.1	1784.8	1870.1	1942.8	2096.7	2229.7	1952.0
52.5°	1626.7	1621.7	1655.1	1774.7	1881.8	1926.1	2026.5	2127.7	2282.4	2361.0	2003.9
55°	1718.7	1721.2	1742.1	1888.5	2044.9	2087.5	2214.6	2317.5	2452.2	2441.3	2032.3
57.5°	1824.9	1824.1	1850.8	2013.1	2235.5	2284.9	2417.9	2502.3	2555.0	2499.0	2037.3
60°	1925.3	1922.7	1963.7	2161.9	2438.8	2511.5	2631.1	2627.8	2657.9	2535.8	2033.1
62.5°	2014.7	2020.6	2092.5	2335.1	2666.3	2744.9	2805.1	2763.3	2771.6	2578.4	1981.3
65°	2123.5	2134.3	2250.6	2545.0	2947.3	2984.9	3008.3	2940.6	2856.9	2544.1	1824.1
67.5°	2260.6	2293.2	2457.2	2854.4	3240.0	3265.9	3266.7	3047.6	2853.6	2371.0	1533.8
70°	2315.0	2349.3	2610.2	3099.5	3486.7	3519.3	3417.3	3030.9	2628.6	1856.7	1035.4
71°	2277.4	2308.3	2606.0	3122.9	3537.7	3563.6	3403.9	2921.3	2383.6	1529.7	802.1
72.5°	2005.5	2085.8	2445.5	2975.7	3446.6	3447.4	3187.3	2662.9	1896.0	955.1	403.1
75°	1083.1	1180.1	1792.3	2264.8	2658.7	2679.6	2452.2	1849.2	917.5	247.6	97.9
77.5°	357.1	402.3	803.7	1175.9	1667.7	1700.3	1499.6	821.3	289.4	83.6	51.0
80°	224.1	229.2	271.8	494.3	741.8	769.4	617.2	332.9	130.5	46.0	35.1
82.5°	37.6	45.2	128.0	145.5	261.8	207.4	140.5	169.8	61.1	20.9	30.1
85°	0.0	0.0	0.8	0.8	4.2	0.8	0.8	34.3	3.3	3.3	15.9
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	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°	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9	889.9
2.5°	879.8	873.1	859.8	845.5	828.0	812.9	807.9	797.0	792.0	787.8	787.8
5°	855.6	843.9	815.4	786.2	757.7	727.6	700.0	674.1	661.5	644.0	652.3
7.5°	835.5	815.4	775.3	729.3	670.7	611.4	565.4	525.2	491.8	480.9	473.4
10°	821.3	796.2	737.7	667.4	582.1	497.6	426.5	360.5	322.0	298.6	298.6
12.5°	819.6	787.8	711.7	603.8	480.9	366.3	278.5	215.8	184.8	170.6	169.8
15°	825.5	787.0	688.3	546.1	388.1	254.2	174.0	146.4	138.8	137.2	137.2
17.5°	830.5	786.2	660.7	480.9	286.0	167.3	138.0	133.0	131.3	130.5	130.5
20°	835.5	782.0	628.9	407.3	202.4	136.3	128.8	126.3	125.5	124.6	124.6
22.5°	842.2	777.8	596.3	323.7	149.7	127.1	122.9	120.4	119.6	119.6	119.6
25°	851.4	775.3	556.2	245.0	128.8	120.4	116.3	114.6	114.6	113.7	113.7
27.5°	869.0	777.8	512.7	175.6	120.4	113.7	111.2	109.6	109.6	108.7	108.7
30°	893.2	785.3	458.3	137.2	113.7	107.1	104.5	103.7	102.9	102.9	102.9
32.5°	927.5	797.0	398.9	117.1	105.4	100.4	97.9	97.0	97.0	97.0	96.2
35°	980.2	821.3	326.2	107.1	97.9	92.8	90.3	90.3	90.3	89.5	90.3
37.5°	1060.5	860.6	252.6	98.7	89.5	85.3	83.6	82.8	82.8	82.8	82.8
40°	1161.7	924.2	184.0	91.2	82.0	77.8	76.1	75.3	74.4	74.4	74.4
42.5°	1292.1	994.4	133.8	82.8	75.3	71.1	69.4	67.7	66.1	65.2	65.2
45°	1427.6	1078.0	104.5	76.1	68.6	65.2	63.6	61.1	58.5	56.0	56.0
47.5°	1558.9	1142.4	89.5	68.6	62.7	59.4	57.7	54.4	50.2	47.7	47.7
50°	1641.7	1162.5	80.3	61.9	56.9	54.4	51.9	47.7	41.8	39.3	39.3
52.5°	1667.7	1125.7	71.9	56.0	51.9	49.3	46.0	40.1	34.3	30.9	30.9
55°	1677.7	1054.6	63.6	51.9	46.8	43.5	39.3	33.5	27.6	24.3	24.3
57.5°	1665.2	954.3	56.9	46.8	41.8	38.5	33.5	26.8	20.9	18.4	18.4
60°	1622.5	808.7	51.0	41.8	36.8	32.6	27.6	20.9	15.9	12.5	13.4
62.5°	1507.1	625.6	44.3	35.1	31.8	27.6	21.7	15.9	10.0	8.4	8.4
65°	1323.1	433.2	37.6	29.3	26.8	22.6	16.7	10.9	5.9	5.0	5.0
67.5°	1074.7	280.2	29.3	24.3	22.6	18.4	12.5	6.7	3.3	3.3	2.5
70°	674.9	138.8	23.4	18.4	18.4	14.2	9.2	4.2	2.5	2.5	2.5
71°	477.6	94.5	20.9	16.7	16.7	13.4	8.4	3.3	2.5	2.5	2.5
72.5°	215.8	59.4	17.6	15.1	14.2	10.9	7.5	3.3	3.3	3.3	3.3
75°	67.7	32.6	12.5	11.7	11.7	9.2	6.7	4.2	4.2	4.2	4.2
77.5°	45.2	25.1	8.4	7.5	9.2	9.2	6.7	5.0	5.0	5.0	5.0
80°	36.8	13.4	5.0	5.0	6.7	8.4	6.7	5.0	5.9	5.0	5.0
82.5°	36.0	6.7	1.7	2.5	4.2	5.0	5.0	4.2	5.0	5.0	5.0
85°	15.1	1.7	0.8	1.7	1.7	2.5	2.5	3.3	4.2	4.2	4.2
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	1.7	1.7	2.5	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)