

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: P401525

Luminaire Tested: **ENV-SA1D-750-U-SL4-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401525
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-SA1D-750-U-SL4-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 5000K, 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: 4633 lumens
Efficiency: N/A
Efficacy: 107.5 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

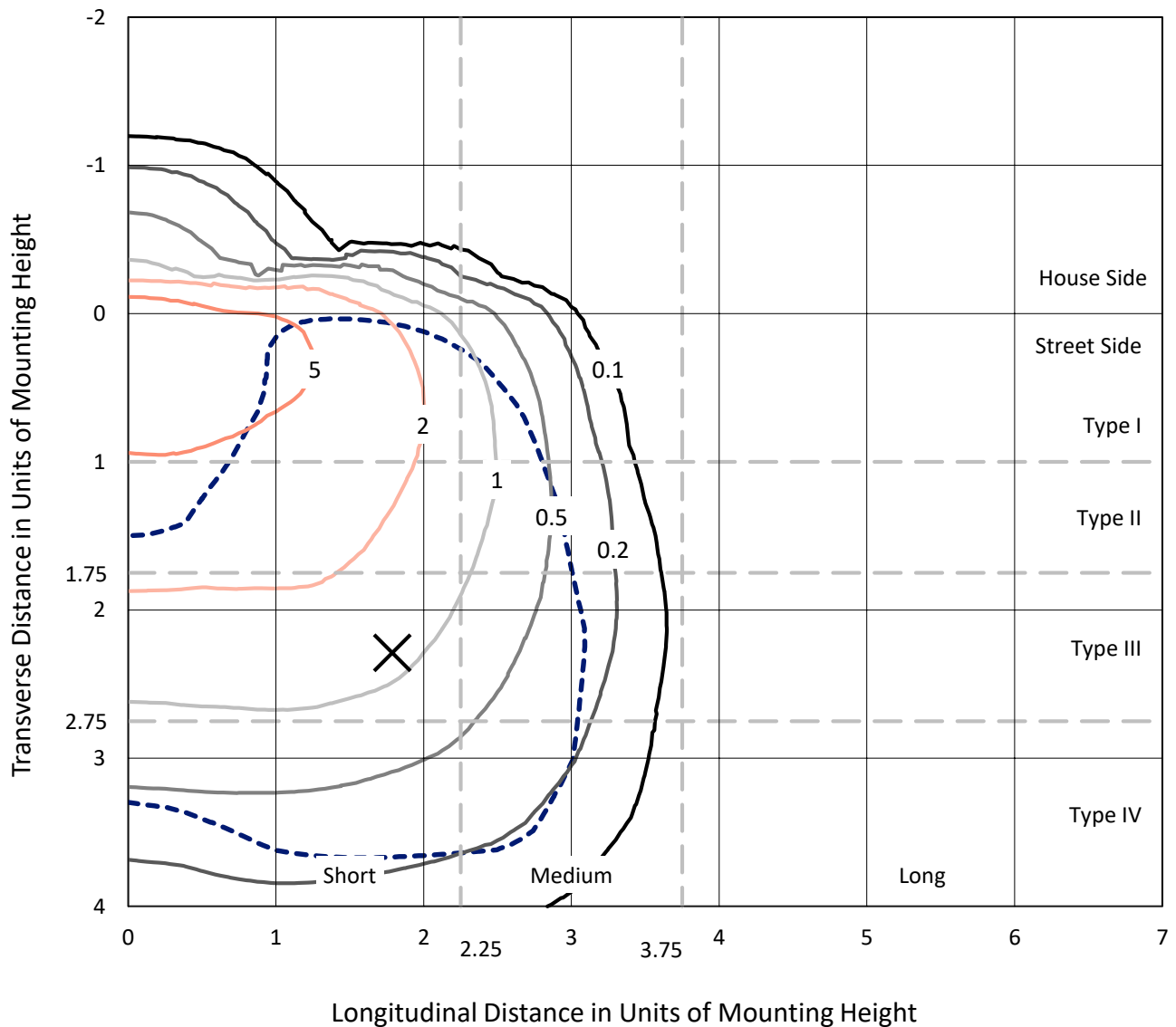
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P401525
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

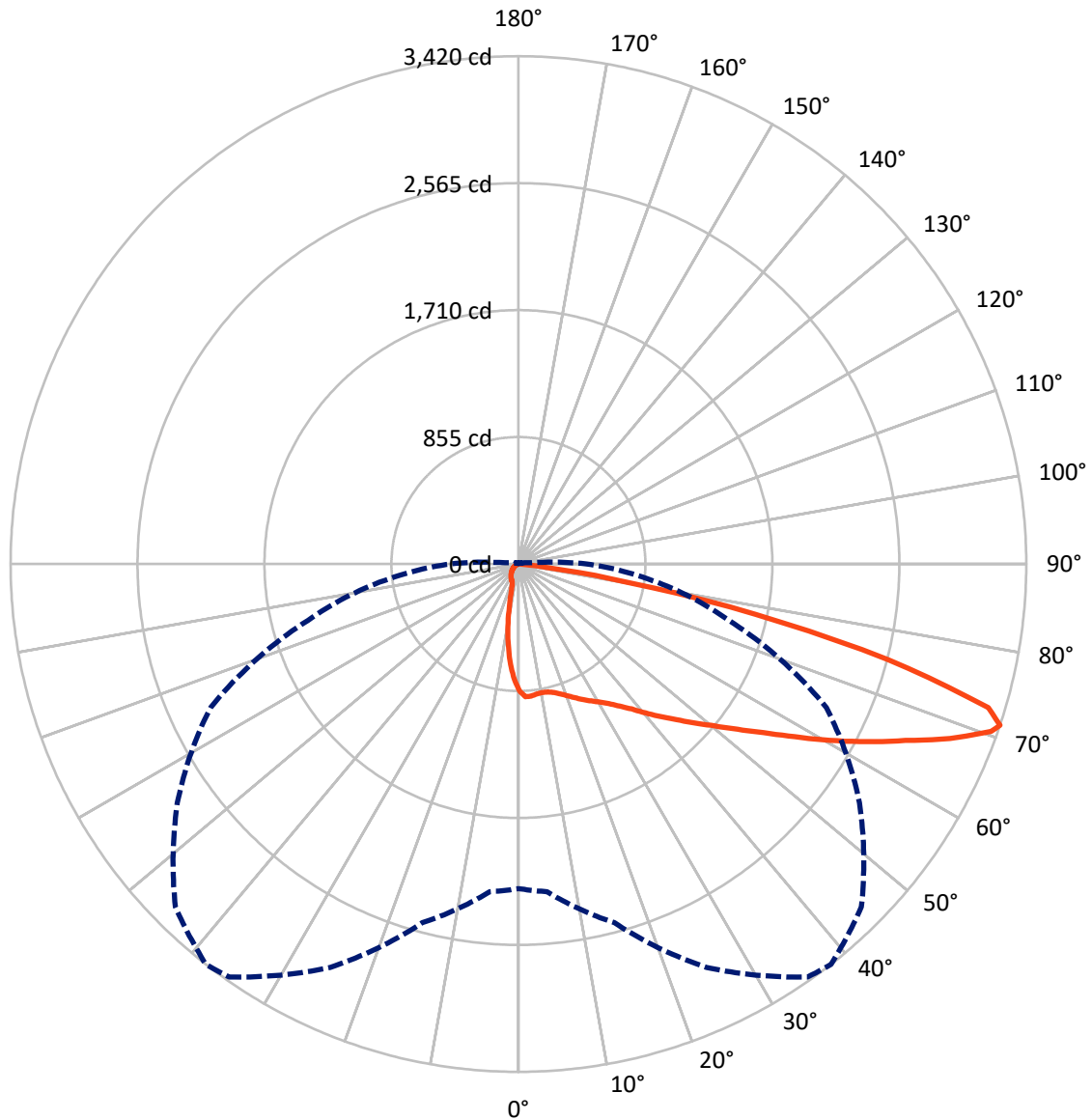


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P401525

CATALOG NUMBER: ENV-SA1D-750-U-SL4-HSS

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	395.7	0.0	395.7
	% Fixture	8.5	0.0	8.5
Street Side	Lumens	4237.2	0.0	4237.2
	% Fixture	91.5	0.0	91.5
Total	Lumens	4633.0	0.0	4633.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	1.6
10°-20°	174.7	3.8
20°-30°	280.1	6.0
30°-40°	426.1	9.2
40°-50°	664.0	14.3
50°-60°	971.0	21.0
60°-70°	1245.5	26.9
70°-80°	761.3	16.4
80°-90°	38.2	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°	4633.0	100.0
0°-180°	4633.0	100.0



REPORT NUMBER: P401525

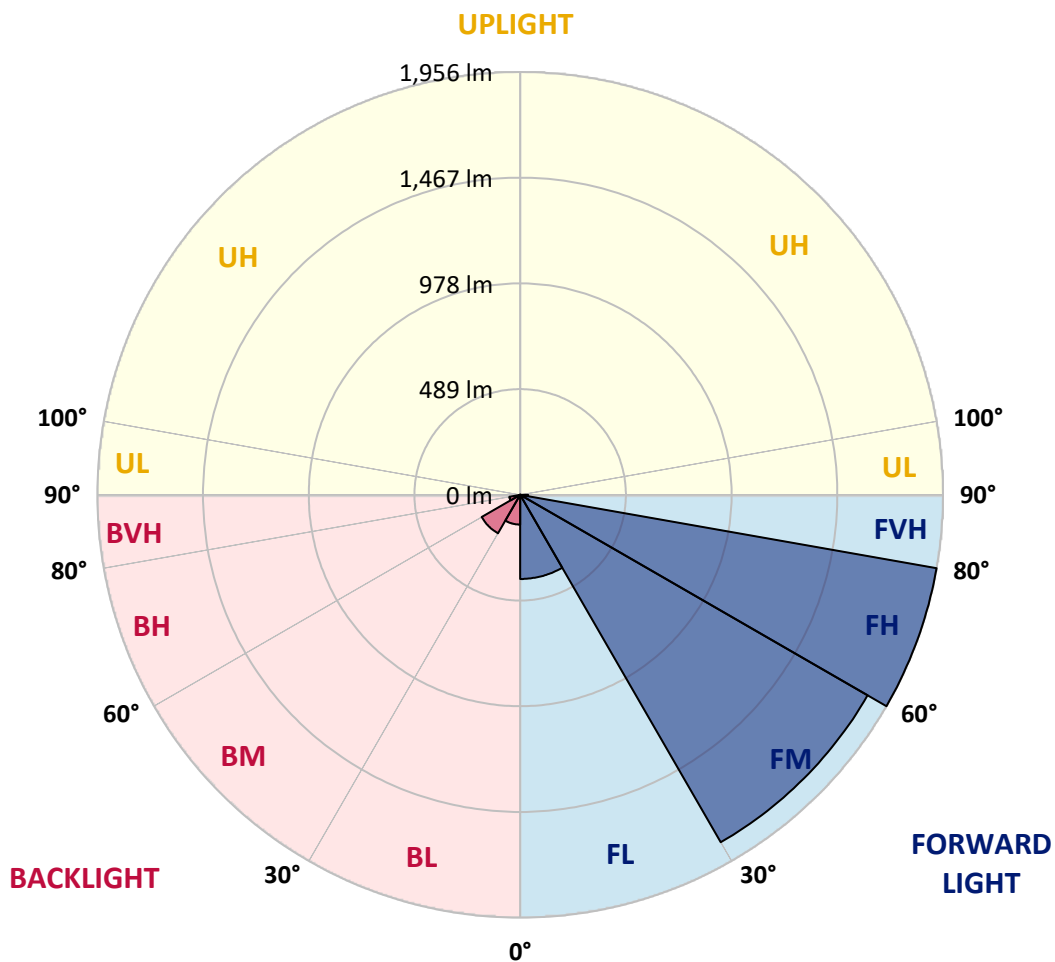
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	389.3	8.4			
FM	(30°-60°)	1855.6	40.1			
FH	(60°-80°)	1955.9	42.2			G2/5000
FVH	(80°-90°)	36.5	0.8			G1/100
BL	(0°-30°)	137.6	3.0	B1/500		
BM	(30°-60°)	205.6	4.4	B0/220		
BH	(60°-80°)	50.9	1.1	B0/110		G0/110
BVH	(80°-90°)	1.7	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





REPORT NUMBER: P401525

CATALOG NUMBER: ENV-SA1D-750-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1
2.5°	904.7	902.3	904.7	902.3	897.5	895.0	891.8	883.0	875.0	865.3	850.9
5°	906.3	904.7	904.7	901.5	895.8	893.4	890.2	881.4	871.0	856.5	834.8
7.5°	897.5	896.6	895.0	891.8	885.4	883.8	881.4	871.0	860.5	845.3	818.8
10°	883.0	884.6	883.8	883.8	881.4	879.8	878.2	866.1	854.9	837.2	809.1
12.5°	869.4	871.0	875.0	881.4	883.8	884.6	884.6	872.6	858.9	839.7	810.8
15°	860.5	863.7	875.0	887.8	895.0	897.5	899.9	887.0	871.0	850.1	819.6
17.5°	858.1	862.9	884.6	904.7	918.3	919.9	919.9	903.9	887.0	862.9	830.0
20°	866.1	872.6	900.7	928.8	945.6	947.2	944.0	923.1	903.1	876.6	838.9
22.5°	890.2	895.8	928.0	960.9	976.9	978.5	971.3	942.4	920.7	899.1	850.9
25°	932.0	935.2	969.7	1001.0	1009.8	1012.2	1000.2	965.7	940.8	920.7	867.7
27.5°	987.4	989.0	1020.3	1043.5	1045.2	1044.3	1031.5	995.4	970.5	953.6	893.4
30°	1045.2	1047.6	1073.2	1088.5	1082.1	1078.9	1067.6	1029.1	1006.6	993.8	930.4
32.5°	1098.9	1101.3	1129.4	1137.5	1123.0	1120.6	1112.6	1071.6	1052.4	1058.8	983.3
35°	1151.9	1151.9	1184.0	1188.0	1175.2	1175.2	1175.2	1126.2	1123.0	1144.7	1057.2
37.5°	1199.3	1207.3	1241.0	1239.4	1237.0	1238.6	1243.4	1206.5	1217.7	1254.7	1154.3
40°	1239.4	1249.8	1294.8	1298.8	1309.2	1318.1	1325.3	1306.0	1332.5	1392.7	1278.7
42.5°	1275.5	1287.6	1345.4	1363.8	1392.7	1404.8	1418.4	1413.6	1472.2	1582.2	1437.7
45°	1322.1	1334.9	1394.3	1438.5	1478.6	1494.7	1525.2	1546.1	1643.2	1768.4	1609.5
47.5°	1383.9	1392.7	1447.3	1517.2	1571.7	1600.6	1648.0	1701.8	1819.8	1965.9	1762.8
50°	1468.2	1469.0	1509.9	1600.6	1681.7	1713.0	1794.9	1864.7	2012.4	2140.1	1873.6
52.5°	1561.3	1556.5	1588.6	1703.4	1806.1	1848.7	1945.0	2042.1	2190.6	2266.1	1923.3
55°	1649.6	1652.0	1672.1	1812.6	1962.7	2003.6	2125.6	2224.4	2353.6	2343.2	1950.6
57.5°	1751.6	1750.7	1776.4	1932.2	2145.7	2193.1	2320.7	2401.8	2452.3	2398.6	1955.4
60°	1847.9	1845.5	1884.8	2075.1	2340.8	2410.6	2525.4	2522.2	2551.1	2433.9	1951.4
62.5°	1933.8	1939.4	2008.4	2241.2	2559.1	2634.6	2692.4	2652.2	2660.2	2474.8	1901.7
65°	2038.1	2048.6	2160.1	2442.7	2828.8	2864.9	2887.4	2822.4	2742.1	2441.9	1750.7
67.5°	2169.8	2201.1	2358.4	2739.7	3109.8	3134.7	3135.5	2925.1	2738.9	2275.7	1472.2
70°	2222.0	2254.9	2505.3	2974.9	3346.6	3377.9	3279.9	2909.1	2523.0	1782.1	993.8
71°	2185.8	2215.5	2501.3	2997.4	3395.5	3420.4	3267.1	2803.9	2287.8	1468.2	769.8
72.5°	1924.9	2002.0	2347.2	2856.1	3308.0	3308.8	3059.2	2555.9	1819.8	916.7	386.9
75°	1039.5	1132.6	1720.2	2173.8	2551.9	2571.9	2353.6	1774.8	880.6	237.6	93.9
77.5°	342.8	386.1	771.4	1128.6	1600.6	1631.9	1439.3	788.3	277.7	80.3	49.0
80°	215.1	219.9	260.9	474.4	712.0	738.5	592.4	319.5	125.2	44.2	33.7
82.5°	36.1	43.3	122.8	139.7	251.3	199.1	134.9	163.0	58.6	20.1	28.9
85°	0.0	0.0	0.8	0.8	4.0	0.8	0.8	32.9	3.2	3.2	15.3
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°	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1
2.5°	844.5	838.0	825.2	811.6	794.7	780.3	775.4	765.0	760.2	756.2	756.2
5°	821.2	810.0	782.7	754.6	727.3	698.4	671.9	647.0	635.0	618.1	626.1
7.5°	801.9	782.7	744.1	700.0	643.8	586.8	542.6	504.1	472.0	461.6	454.3
10°	788.3	764.2	708.0	640.6	558.7	477.6	409.4	346.0	309.1	286.6	286.6
12.5°	786.7	756.2	683.1	579.6	461.6	351.6	267.3	207.1	177.4	163.8	163.0
15°	792.3	755.4	660.6	524.2	372.5	244.0	167.0	140.5	133.3	131.6	131.6
17.5°	797.1	754.6	634.2	461.6	274.5	160.5	132.5	127.6	126.0	125.2	125.2
20°	801.9	750.6	603.7	390.9	194.3	130.8	123.6	121.2	120.4	119.6	119.6
22.5°	808.3	746.5	572.3	310.7	143.7	122.0	118.0	115.6	114.8	114.8	114.8
25°	817.2	744.1	533.8	235.2	123.6	115.6	111.6	110.0	110.0	109.2	109.2
27.5°	834.0	746.5	492.1	168.6	115.6	109.2	106.8	105.2	105.2	104.4	104.4
30°	857.3	753.8	439.9	131.6	109.2	102.7	100.3	99.5	98.7	98.7	98.7
32.5°	890.2	765.0	382.9	112.4	101.1	96.3	93.9	93.1	93.1	93.1	92.3
35°	940.8	788.3	313.1	102.7	93.9	89.1	86.7	86.7	86.7	85.9	86.7
37.5°	1017.9	826.0	242.4	94.7	85.9	81.9	80.3	79.5	79.5	79.5	79.5
40°	1115.0	887.0	176.6	87.5	78.7	74.7	73.0	72.2	71.4	71.4	71.4
42.5°	1240.2	954.4	128.4	79.5	72.2	68.2	66.6	65.0	63.4	62.6	62.6
45°	1370.3	1034.7	100.3	73.0	65.8	62.6	61.0	58.6	56.2	53.8	53.8
47.5°	1496.3	1096.5	85.9	65.8	60.2	57.0	55.4	52.2	48.2	45.8	45.8
50°	1575.8	1115.8	77.1	59.4	54.6	52.2	49.8	45.8	40.1	37.7	37.7
52.5°	1600.6	1080.5	69.0	53.8	49.8	47.4	44.2	38.5	32.9	29.7	29.7
55°	1610.3	1012.2	61.0	49.8	45.0	41.7	37.7	32.1	26.5	23.3	23.3
57.5°	1598.2	915.9	54.6	45.0	40.1	36.9	32.1	25.7	20.1	17.7	17.7
60°	1557.3	776.2	49.0	40.1	35.3	31.3	26.5	20.1	15.3	12.0	12.8
62.5°	1446.5	600.4	42.5	33.7	30.5	26.5	20.9	15.3	9.6	8.0	8.0
65°	1269.9	415.8	36.1	28.1	25.7	21.7	16.1	10.4	5.6	4.8	4.8
67.5°	1031.5	268.9	28.1	23.3	21.7	17.7	12.0	6.4	3.2	3.2	2.4
70°	647.8	133.3	22.5	17.7	17.7	13.6	8.8	4.0	2.4	2.4	2.4
71°	458.4	90.7	20.1	16.1	16.1	12.8	8.0	3.2	2.4	2.4	2.4
72.5°	207.1	57.0	16.9	14.4	13.6	10.4	7.2	3.2	3.2	3.2	3.2
75°	65.0	31.3	12.0	11.2	11.2	8.8	6.4	4.0	4.0	4.0	4.0
77.5°	43.3	24.1	8.0	7.2	8.8	8.8	6.4	4.8	4.8	4.8	4.8
80°	35.3	12.8	4.8	4.8	6.4	8.0	6.4	4.8	5.6	4.8	4.8
82.5°	34.5	6.4	1.6	2.4	4.0	4.8	4.8	4.0	4.8	4.8	4.8
85°	14.4	1.6	0.8	1.6	1.6	2.4	2.4	3.2	4.0	4.0	4.0
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6	2.4	3.2	3.2
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)