

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: P401289

Luminaire Tested: **ENV-SA1C-735-U-SL3-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401289  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1C-735-U-SL3-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3551 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

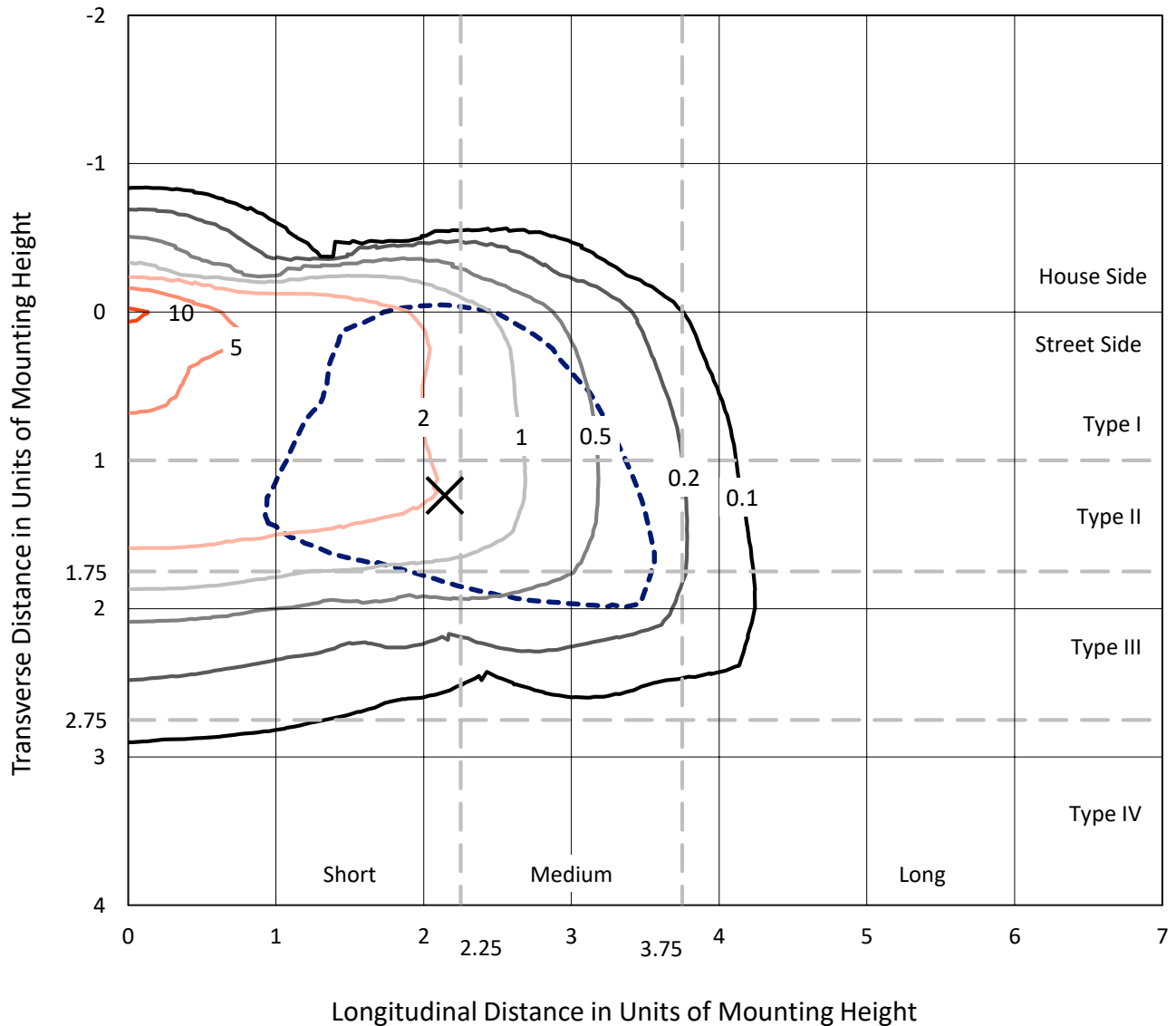
Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P401289  
 CATALOG NUMBER: ENV-SA1C-735-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

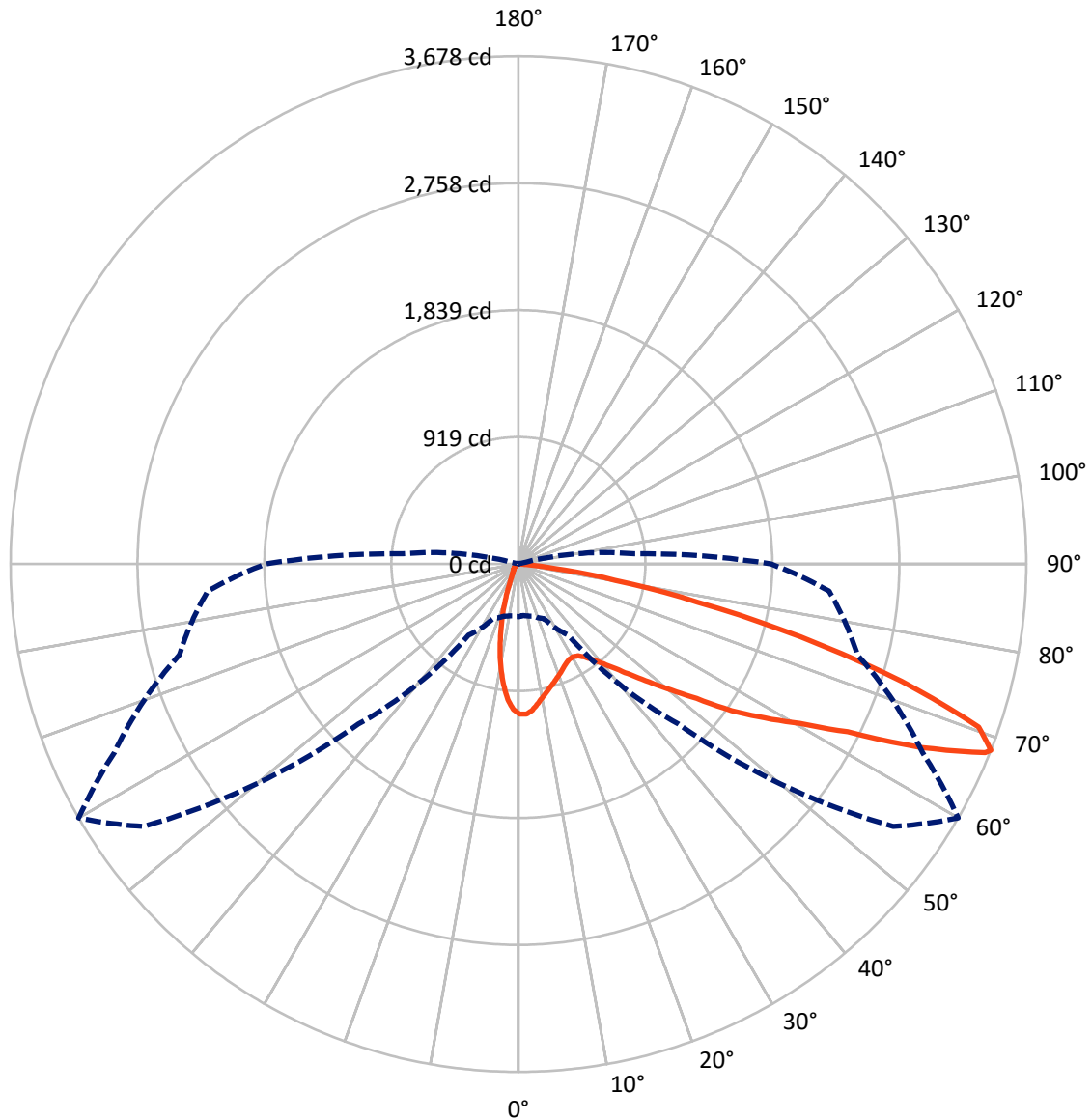


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc  
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P401289

CATALOG NUMBER: ENV-SA1C-735-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P401289

CATALOG NUMBER: ENV-SA1C-735-U-SL3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	397.0	0.0	397.0
	% Fixture	11.2	0.0	11.2
<b>Street Side</b>	Lumens	3154.0	0.0	3154.0
	% Fixture	88.8	0.0	88.8
<b>Total</b>	Lumens	3551.0	0.0	3551.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	2.5
10°-20°	179.9	5.1
20°-30°	236.9	6.7
30°-40°	326.9	9.2
40°-50°	495.5	14.0
50°-60°	799.5	22.5
60°-70°	949.8	26.7
70°-80°	447.7	12.6
80°-90°	26.7	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°	3551.0	100.0
0°-180°	3551.0	100.0



REPORT NUMBER: P401289

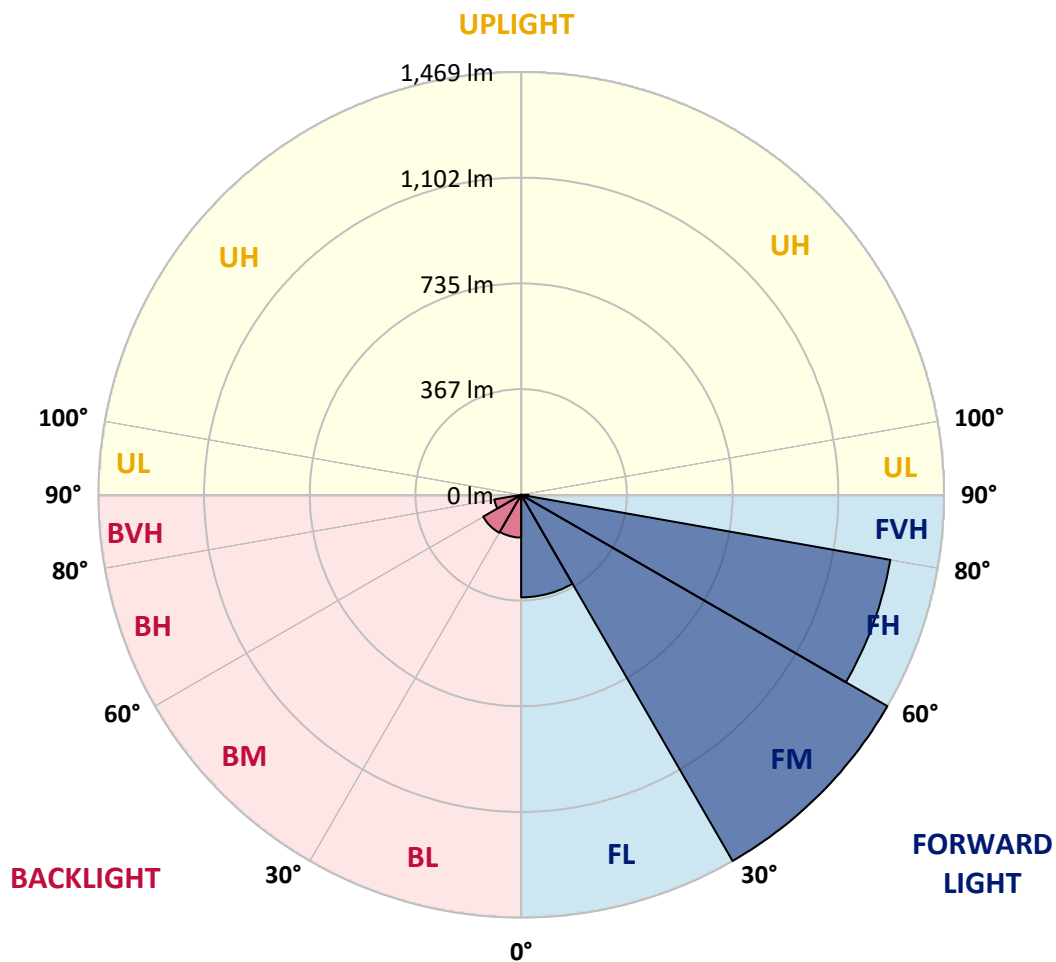
CATALOG NUMBER: ENV-SA1C-735-U-SL3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.4	10.0			
FM	(30°-60°)	1469.2	41.4			
FH	(60°-80°)	1302.7	36.7			G1/1800
FVH	(80°-90°)	25.6	0.7			G1/100
BL	(0°-30°)	148.6	4.2	B1/500		
BM	(30°-60°)	152.6	4.3	B0/220		
BH	(60°-80°)	94.7	2.7	B0/110		G0/110
BVH	(80°-90°)	1.1	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 III Short





REPORT NUMBER: P401289

CATALOG NUMBER: ENV-SA1C-735-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9
2.5°	1077.3	1074.9	1081.5	1083.3	1085.1	1088.7	1088.1	1088.7	1089.3	1088.1	1080.9
5°	1003.8	1008.0	1014.0	1021.9	1029.7	1047.8	1055.0	1062.2	1067.0	1070.7	1064.0
7.5°	931.5	939.9	944.7	959.2	971.2	989.9	1005.6	1018.2	1030.3	1043.5	1036.9
10°	873.6	876.6	880.9	894.1	912.2	940.5	961.0	976.7	991.1	1013.4	1008.0
12.5°	817.0	818.8	827.2	841.7	860.4	895.3	922.4	940.5	956.8	984.5	985.1
15°	775.4	776.0	781.5	794.7	816.4	853.8	888.7	908.6	931.5	965.2	967.0
17.5°	748.3	747.7	748.9	757.4	777.8	813.4	855.6	879.1	906.2	949.5	951.4
20°	739.9	738.7	736.3	734.5	747.1	777.8	825.4	851.3	883.3	938.1	938.7
22.5°	747.1	744.7	739.3	729.0	732.6	752.5	792.3	823.6	862.8	932.1	927.9
25°	764.6	764.6	757.4	741.1	732.6	736.9	768.8	798.9	842.3	929.1	920.0
27.5°	793.5	792.3	782.7	765.8	750.1	738.7	754.3	782.7	827.2	932.7	916.4
30°	828.4	824.8	814.6	802.5	783.3	758.6	757.4	778.4	820.0	944.1	918.8
32.5°	861.6	861.6	857.4	845.9	827.2	794.7	776.0	792.9	829.0	962.8	926.7
35°	902.6	902.0	903.2	898.9	882.7	848.3	818.2	826.6	856.8	994.1	945.3
37.5°	935.1	935.7	945.9	953.2	945.9	909.8	878.5	878.5	903.8	1041.1	977.3
40°	967.0	968.2	987.5	1008.6	1010.4	981.5	951.4	950.8	965.2	1099.0	1026.7
42.5°	995.9	1000.8	1028.5	1064.6	1085.7	1066.4	1044.1	1036.9	1044.1	1186.3	1106.8
45°	1026.7	1036.3	1074.9	1127.3	1161.6	1162.2	1153.8	1145.4	1149.0	1284.5	1214.1
47.5°	1066.4	1077.3	1125.5	1189.9	1255.0	1271.9	1279.7	1276.7	1267.1	1408.7	1352.6
50°	1130.9	1141.1	1186.3	1258.6	1347.8	1408.7	1429.7	1433.4	1420.7	1546.0	1509.9
52.5°	1240.6	1246.6	1288.8	1346.0	1446.0	1559.9	1615.3	1615.9	1587.6	1706.9	1679.8
55°	1358.0	1373.7	1423.1	1489.4	1592.4	1720.2	1858.7	1873.8	1786.4	1847.9	1803.9
57.5°	1359.9	1374.9	1456.9	1584.0	1799.7	1969.0	2092.5	2103.3	2006.3	1961.2	1920.8
60°	1216.5	1224.3	1338.2	1524.3	1873.8	2304.6	2358.8	2342.5	2160.6	2078.0	2067.2
62.5°	858.6	862.2	997.1	1242.4	1709.9	2464.9	2764.3	2676.9	2379.9	2250.4	2286.5
65°	540.4	538.6	594.7	790.5	1271.9	2307.0	3265.6	3201.7	2783.0	2466.1	2457.6
67.5°	398.9	389.2	404.3	465.1	726.6	1811.1	3357.8	3645.8	3166.8	2555.8	2309.4
68°	382.6	374.2	389.8	436.8	628.4	1639.4	3313.2	3677.7	3227.6	2541.4	2258.8
70°	324.8	316.9	330.2	365.7	437.4	1064.0	2923.4	3536.1	3283.1	2418.5	1990.7
72.5°	230.8	235.0	269.9	313.9	370.5	545.9	2152.8	2904.1	2823.9	2150.9	1514.7
75°	136.8	144.6	190.4	253.1	340.4	360.3	1388.8	2111.2	2072.0	1489.4	820.6
77.5°	48.2	51.2	94.6	168.7	280.8	285.6	773.6	1327.3	1234.5	608.5	242.2
80°	17.5	17.5	34.9	94.0	181.4	218.1	410.9	708.5	487.4	157.9	66.9
82.5°	3.0	3.0	7.8	31.9	80.1	116.3	191.0	251.8	144.6	34.9	33.1
85°	0.0	0.0	0.0	0.0	1.2	1.2	56.0	56.6	26.5	4.8	14.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.2	1.2	1.2	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P401289

CATALOG NUMBER: ENV-SA1C-735-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9
2.5°	1077.9	1076.7	1070.1	1058.0	1047.8	1030.9	1027.9	1011.6	1005.6	1000.8	1005.6
5°	1059.2	1052.6	1030.3	1003.2	966.4	923.0	897.7	862.8	855.6	836.3	847.7
7.5°	1028.5	1013.4	971.8	913.4	845.9	779.6	729.0	680.2	638.7	624.2	620.0
10°	995.9	974.9	905.0	814.6	717.0	615.2	539.8	469.4	430.2	393.4	392.2
12.5°	965.2	933.3	832.1	706.1	570.0	448.9	351.3	277.2	230.8	205.5	212.1
15°	940.5	897.7	758.6	597.7	425.4	289.2	198.8	151.2	135.0	127.1	128.3
17.5°	916.4	859.8	687.5	484.4	303.1	178.3	128.9	112.7	107.8	106.0	104.8
20°	894.7	823.0	612.7	382.0	200.0	123.5	106.0	100.6	98.8	97.6	97.6
22.5°	873.0	784.5	538.0	283.2	136.8	101.2	95.2	92.8	91.6	89.8	89.8
25°	853.1	747.1	463.3	198.2	104.8	90.4	86.2	83.7	81.3	79.5	79.5
27.5°	838.1	718.8	394.0	140.4	88.0	81.3	77.1	72.9	69.9	67.5	67.5
30°	828.4	691.1	327.2	106.0	78.3	72.3	66.9	61.5	56.6	53.6	53.0
32.5°	823.0	668.2	265.1	86.8	69.9	63.3	56.6	50.6	45.2	41.6	41.6
35°	825.4	650.1	203.0	73.5	63.3	55.4	48.2	41.0	36.2	33.1	32.5
37.5°	841.1	639.9	151.2	65.1	56.6	48.2	41.0	33.7	28.9	26.5	25.9
40°	870.6	642.3	115.1	59.0	51.8	42.2	33.7	27.7	23.5	21.1	21.1
42.5°	930.3	659.7	91.0	54.2	46.4	36.2	28.3	22.9	19.3	17.5	16.9
45°	1009.2	692.9	74.7	50.0	41.0	30.7	24.1	19.3	15.7	13.9	13.9
47.5°	1128.5	745.9	64.5	45.8	35.5	25.9	19.9	15.7	12.1	10.8	10.2
50°	1266.5	820.0	56.6	41.0	31.3	21.7	16.9	12.1	9.6	7.8	7.8
52.5°	1407.5	902.6	51.2	36.8	27.1	18.7	13.3	9.0	6.6	5.4	5.4
55°	1537.0	971.8	45.8	33.1	22.9	15.7	10.8	7.2	4.8	3.6	3.6
57.5°	1662.3	1035.1	39.8	28.9	18.7	12.7	8.4	5.4	3.6	2.4	2.4
60°	1819.6	1117.0	34.3	24.7	15.1	10.2	6.6	4.2	2.4	1.8	1.2
62.5°	2009.4	1176.7	28.9	19.9	12.1	7.8	4.8	3.0	1.8	0.6	0.6
65°	2079.2	1097.8	24.1	16.3	9.6	6.0	3.6	2.4	1.2	0.6	0.6
67.5°	1884.0	884.5	19.3	12.7	7.2	4.2	3.0	1.8	1.2	0.6	0.6
68°	1829.8	841.1	18.7	12.1	6.6	4.2	2.4	1.8	0.6	0.6	0.0
70°	1544.8	675.4	15.1	9.0	5.4	3.6	2.4	1.2	0.6	0.6	0.0
72.5°	1145.4	465.7	10.8	6.0	3.6	2.4	1.8	1.2	0.6	0.6	0.0
75°	604.3	181.4	8.4	4.8	3.0	2.4	1.8	1.8	1.2	0.6	0.6
77.5°	173.5	57.2	6.6	3.6	3.0	3.0	3.0	2.4	2.4	1.8	1.2
80°	50.6	18.7	4.2	2.4	3.0	3.0	3.6	3.0	3.0	2.4	2.4
82.5°	27.1	7.2	2.4	1.8	1.8	2.4	3.0	2.4	1.8	1.2	0.6
85°	11.4	2.4	1.8	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6
87.5°	0.6	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)