

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: P401271

Luminaire Tested: **ENT-SA1C-730-U-SL3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401271
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: ENT-SA1C-730-U-SL3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 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: 3442 lumens
Efficiency: N/A
Efficacy: 103.4 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

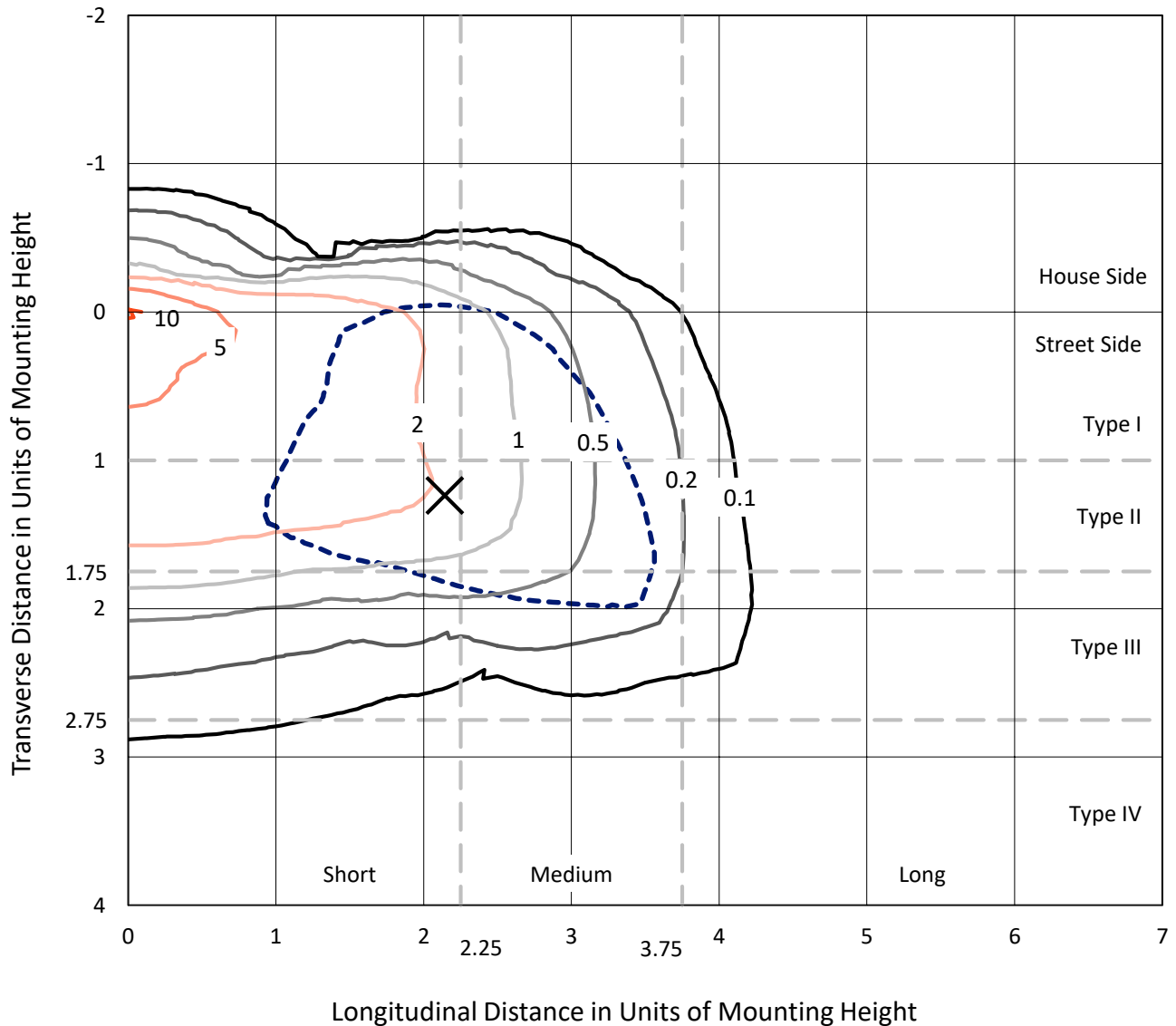
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

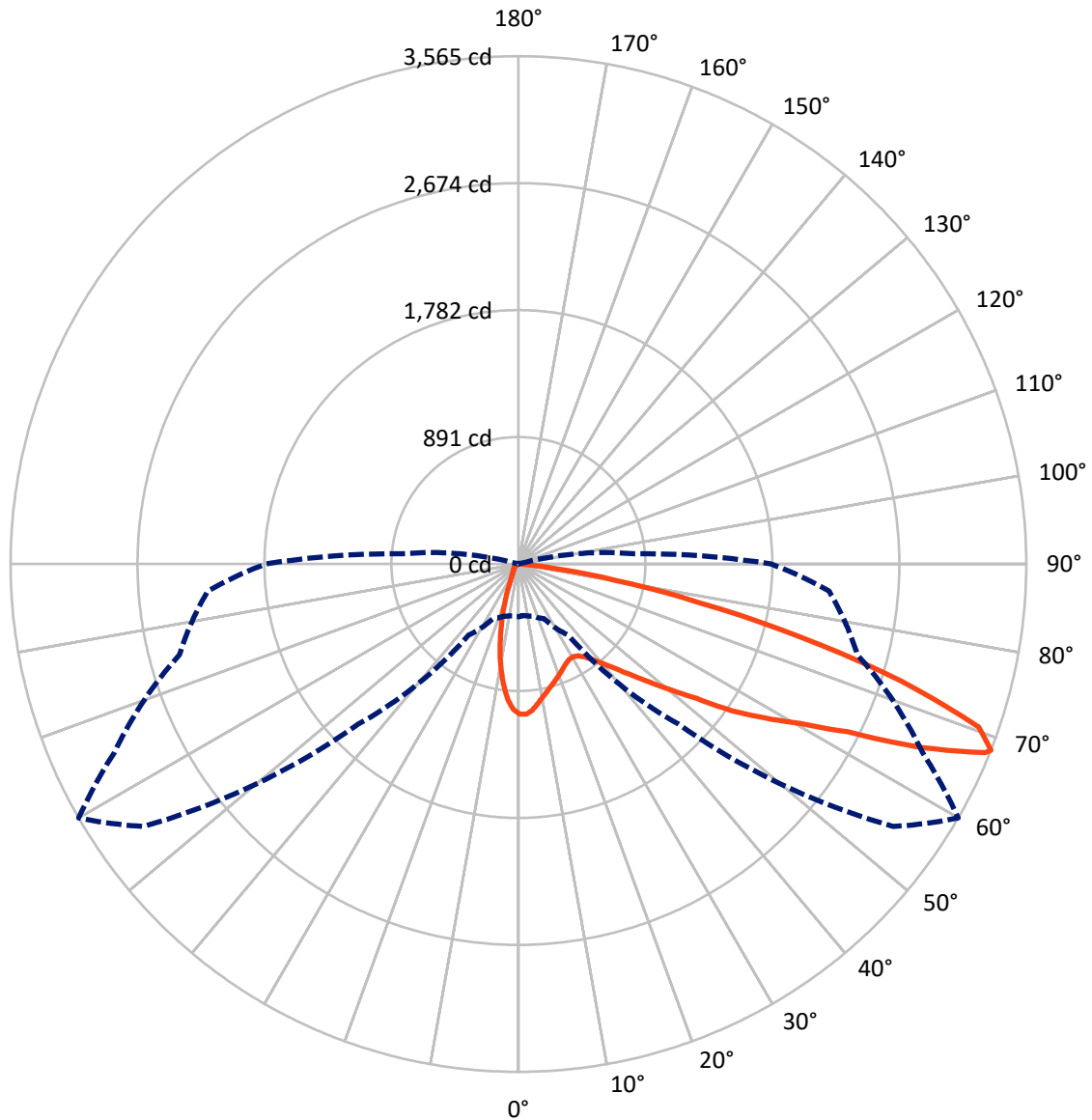


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	384.8	0.0	384.8
	% Fixture	11.2	0.0	11.2
Street Side	Lumens	3057.2	0.0	3057.2
	% Fixture	88.8	0.0	88.8
Total	Lumens	3442.0	0.0	3442.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	2.5
10°-20°	174.4	5.1
20°-30°	229.6	6.7
30°-40°	316.8	9.2
40°-50°	480.3	14.0
50°-60°	775.0	22.5
60°-70°	920.6	26.7
70°-80°	434.0	12.6
80°-90°	25.9	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°	3442.0	100.0
0°-180°	3442.0	100.0



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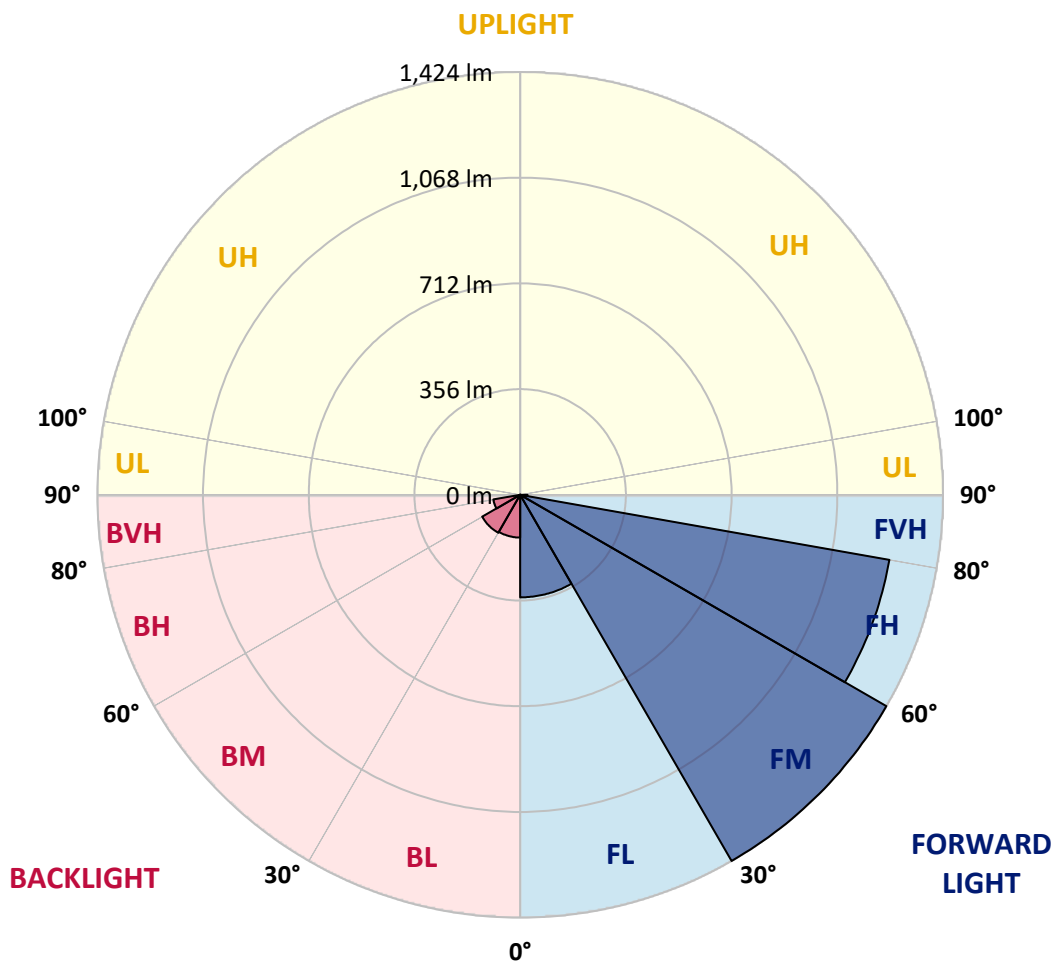
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	345.5	10.0			
FM	(30°-60°)	1424.1	41.4			
FH	(60°-80°)	1262.8	36.7			G1/1800
FVH	(80°-90°)	24.8	0.7			G1/100
BL	(0°-30°)	144.0	4.2	B1/500		
BM	(30°-60°)	147.9	4.3	B0/220		
BH	(60°-80°)	91.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6
2.5°	1044.2	1041.9	1048.3	1050.1	1051.8	1055.3	1054.7	1055.3	1055.9	1054.7	1047.7
5°	973.0	977.1	982.9	990.5	998.1	1015.6	1022.6	1029.6	1034.3	1037.8	1031.4
7.5°	902.9	911.1	915.7	929.7	941.4	959.5	974.7	987.0	998.7	1011.5	1005.1
10°	846.8	849.7	853.8	866.7	884.2	911.6	931.5	946.7	960.7	982.3	977.1
12.5°	791.9	793.7	801.8	815.9	834.0	867.8	894.1	911.6	927.4	954.3	954.9
15°	751.6	752.2	757.5	770.3	791.3	827.5	861.4	880.7	902.9	935.6	937.3
17.5°	725.3	724.8	725.9	734.1	754.0	788.4	829.3	852.1	878.4	920.4	922.2
20°	717.2	716.0	713.7	711.9	724.2	754.0	800.1	825.2	856.2	909.3	909.9
22.5°	724.2	721.8	716.6	706.7	710.2	729.4	768.0	798.3	836.3	903.5	899.4
25°	741.1	741.1	734.1	718.3	710.2	714.2	745.2	774.4	816.4	900.5	891.8
27.5°	769.1	768.0	758.6	742.3	727.1	716.0	731.2	758.6	801.8	904.1	888.3
30°	803.0	799.5	789.6	777.9	759.2	735.3	734.1	754.5	794.8	915.1	890.6
32.5°	835.1	835.1	831.0	820.0	801.8	770.3	752.2	768.6	803.6	933.3	898.2
35°	874.9	874.3	875.4	871.3	855.6	822.3	793.1	801.3	830.5	963.6	916.3
37.5°	906.4	907.0	916.9	923.9	916.9	881.9	851.5	851.5	876.0	1009.2	947.3
40°	937.3	938.5	957.2	977.6	979.4	951.4	922.2	921.6	935.6	1065.2	995.2
42.5°	965.4	970.0	996.9	1031.9	1052.4	1033.7	1012.1	1005.1	1012.1	1149.9	1072.8
45°	995.2	1004.5	1041.9	1092.7	1126.0	1126.6	1118.4	1110.2	1113.7	1245.1	1176.8
47.5°	1033.7	1044.2	1090.9	1153.4	1216.5	1232.8	1240.4	1237.5	1228.2	1365.4	1311.1
50°	1096.2	1106.1	1149.9	1220.0	1306.4	1365.4	1385.9	1389.4	1377.1	1498.6	1463.5
52.5°	1202.5	1208.3	1249.2	1304.7	1401.6	1512.0	1565.7	1566.3	1538.9	1654.5	1628.2
55°	1316.4	1331.5	1379.4	1443.7	1543.5	1667.4	1801.7	1816.3	1731.6	1791.2	1748.5
57.5°	1318.1	1332.7	1412.1	1535.4	1744.4	1908.6	2028.3	2038.8	1944.8	1901.0	1861.8
60°	1179.1	1186.7	1297.1	1477.6	1816.3	2233.8	2286.4	2270.6	2094.3	2014.3	2003.7
62.5°	832.2	835.7	966.5	1204.2	1657.4	2389.2	2679.4	2594.8	2306.8	2181.3	2216.3
65°	523.9	522.1	576.4	766.2	1232.8	2236.2	3165.3	3103.4	2697.6	2390.4	2382.2
67.5°	386.6	377.3	391.9	450.9	704.3	1755.5	3254.7	3533.9	3069.6	2477.4	2238.5
68°	370.8	362.7	377.9	423.4	609.1	1589.1	3211.5	3564.8	3128.6	2463.4	2189.5
70°	314.8	307.2	320.0	354.5	424.0	1031.4	2833.6	3427.6	3182.3	2344.2	1929.6
72.5°	223.7	227.8	261.6	304.3	359.2	529.1	2086.7	2814.9	2737.3	2084.9	1468.2
75°	132.6	140.2	184.5	245.3	330.0	349.2	1346.1	2046.4	2008.4	1443.7	795.4
77.5°	46.7	49.6	91.7	163.5	272.1	276.8	749.9	1286.6	1196.6	589.9	234.8
80°	16.9	16.9	33.9	91.1	175.8	211.4	398.3	686.8	472.5	153.0	64.8
82.5°	2.9	2.9	7.6	31.0	77.7	112.7	185.1	244.1	140.2	33.9	32.1
85°	0.0	0.0	0.0	0.0	1.2	1.2	54.3	54.9	25.7	4.7	14.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6	1053.6
2.5°	1044.8	1043.6	1037.2	1025.5	1015.6	999.2	996.3	980.6	974.7	970.0	974.7
5°	1026.7	1020.3	998.7	972.4	936.8	894.7	870.2	836.3	829.3	810.6	821.7
7.5°	996.9	982.3	942.0	885.4	820.0	755.7	706.7	659.3	619.1	605.0	600.9
10°	965.4	944.9	877.2	789.6	695.0	596.3	523.3	454.9	417.0	381.4	380.2
12.5°	935.6	904.6	806.5	684.5	552.5	435.1	340.5	268.6	223.7	199.1	205.6
15°	911.6	870.2	735.3	579.3	412.3	280.3	192.7	146.6	130.8	123.2	124.4
17.5°	888.3	833.4	666.4	469.5	293.8	172.9	125.0	109.2	104.5	102.8	101.6
20°	867.3	797.8	593.9	370.3	193.9	119.7	102.8	97.5	95.8	94.6	94.6
22.5°	846.2	760.4	521.5	274.5	132.6	98.1	92.3	89.9	88.8	87.0	87.0
25°	827.0	724.2	449.1	192.1	101.6	87.6	83.5	81.2	78.8	77.1	77.1
27.5°	812.4	696.7	381.9	136.1	85.3	78.8	74.8	70.7	67.7	65.4	65.4
30°	803.0	669.9	317.1	102.8	75.9	70.1	64.8	59.6	54.9	52.0	51.4
32.5°	797.8	647.7	257.0	84.1	67.7	61.3	54.9	49.1	43.8	40.3	40.3
35°	800.1	630.1	196.8	71.2	61.3	53.7	46.7	39.7	35.0	32.1	31.5
37.5°	815.3	620.2	146.6	63.1	54.9	46.7	39.7	32.7	28.0	25.7	25.1
40°	843.9	622.6	111.5	57.2	50.2	40.9	32.7	26.9	22.8	20.4	20.4
42.5°	901.7	639.5	88.2	52.6	45.0	35.0	27.4	22.2	18.7	16.9	16.4
45°	978.2	671.6	72.4	48.5	39.7	29.8	23.4	18.7	15.2	13.4	13.4
47.5°	1093.9	723.0	62.5	44.4	34.5	25.1	19.3	15.2	11.7	10.5	9.9
50°	1227.6	794.8	54.9	39.7	30.4	21.0	16.4	11.7	9.3	7.6	7.6
52.5°	1364.3	874.9	49.6	35.6	26.3	18.1	12.8	8.8	6.4	5.3	5.3
55°	1489.8	942.0	44.4	32.1	22.2	15.2	10.5	7.0	4.7	3.5	3.5
57.5°	1611.3	1003.3	38.5	28.0	18.1	12.3	8.2	5.3	3.5	2.3	2.3
60°	1763.7	1082.8	33.3	23.9	14.6	9.9	6.4	4.1	2.3	1.8	1.2
62.5°	1947.7	1140.6	28.0	19.3	11.7	7.6	4.7	2.9	1.8	0.6	0.6
65°	2015.4	1064.1	23.4	15.8	9.3	5.8	3.5	2.3	1.2	0.6	0.6
67.5°	1826.2	857.3	18.7	12.3	7.0	4.1	2.9	1.8	1.2	0.6	0.6
68°	1773.6	815.3	18.1	11.7	6.4	4.1	2.3	1.8	0.6	0.6	0.0
70°	1497.4	654.7	14.6	8.8	5.3	3.5	2.3	1.2	0.6	0.6	0.0
72.5°	1110.2	451.4	10.5	5.8	3.5	2.3	1.8	1.2	0.6	0.6	0.0
75°	585.8	175.8	8.2	4.7	2.9	2.3	1.8	1.8	1.2	0.6	0.6
77.5°	168.2	55.5	6.4	3.5	2.9	2.9	2.9	2.3	2.3	1.8	1.2
80°	49.1	18.1	4.1	2.3	2.9	2.9	3.5	2.9	2.9	2.3	2.3
82.5°	26.3	7.0	2.3	1.8	1.8	2.3	2.9	2.3	1.8	1.2	0.6
85°	11.1	2.3	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)