

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: P401468

Luminaire Tested: **ENT-SA1D-735-U-SL2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1D-735-U-SL2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5239 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

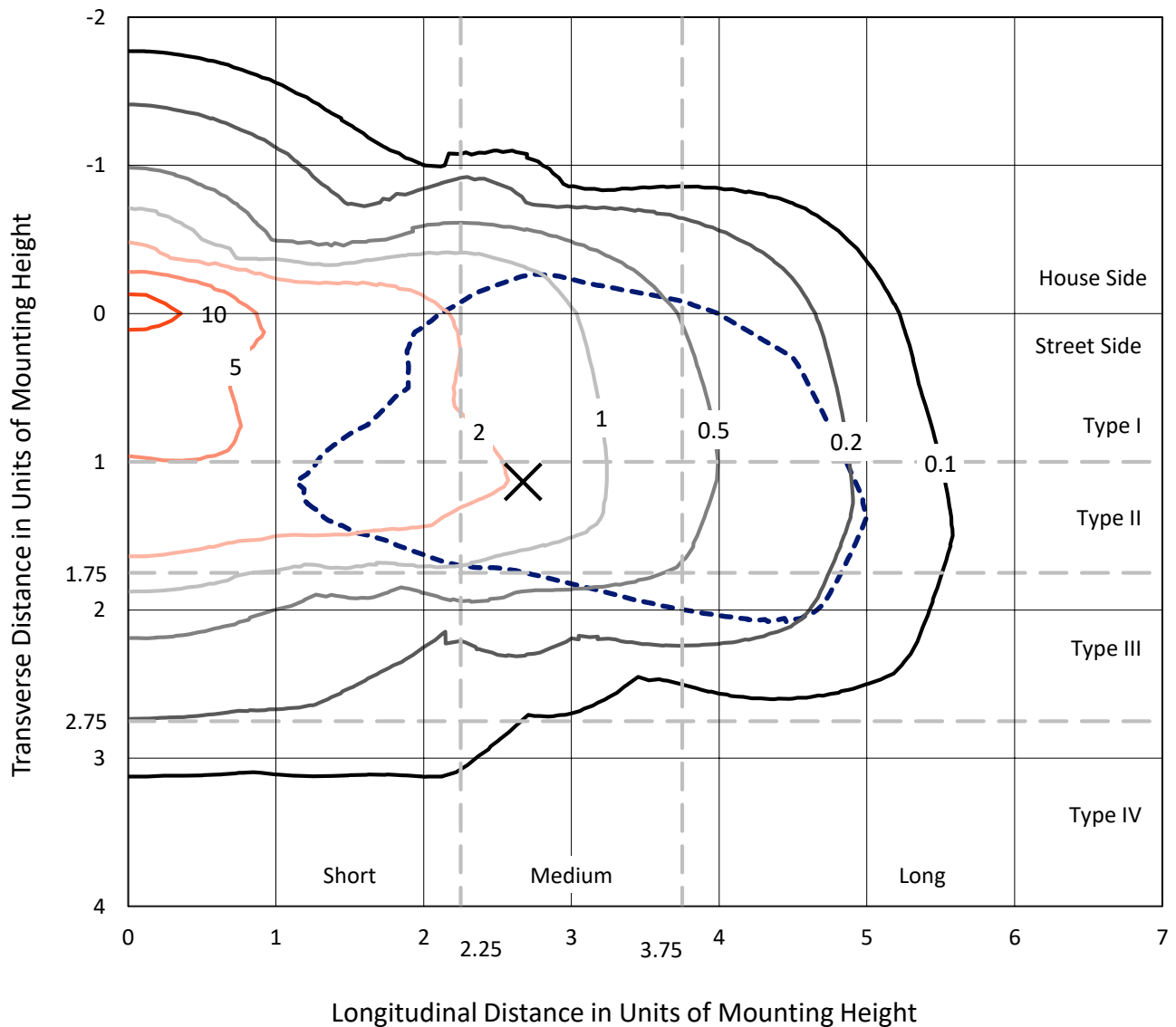
Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

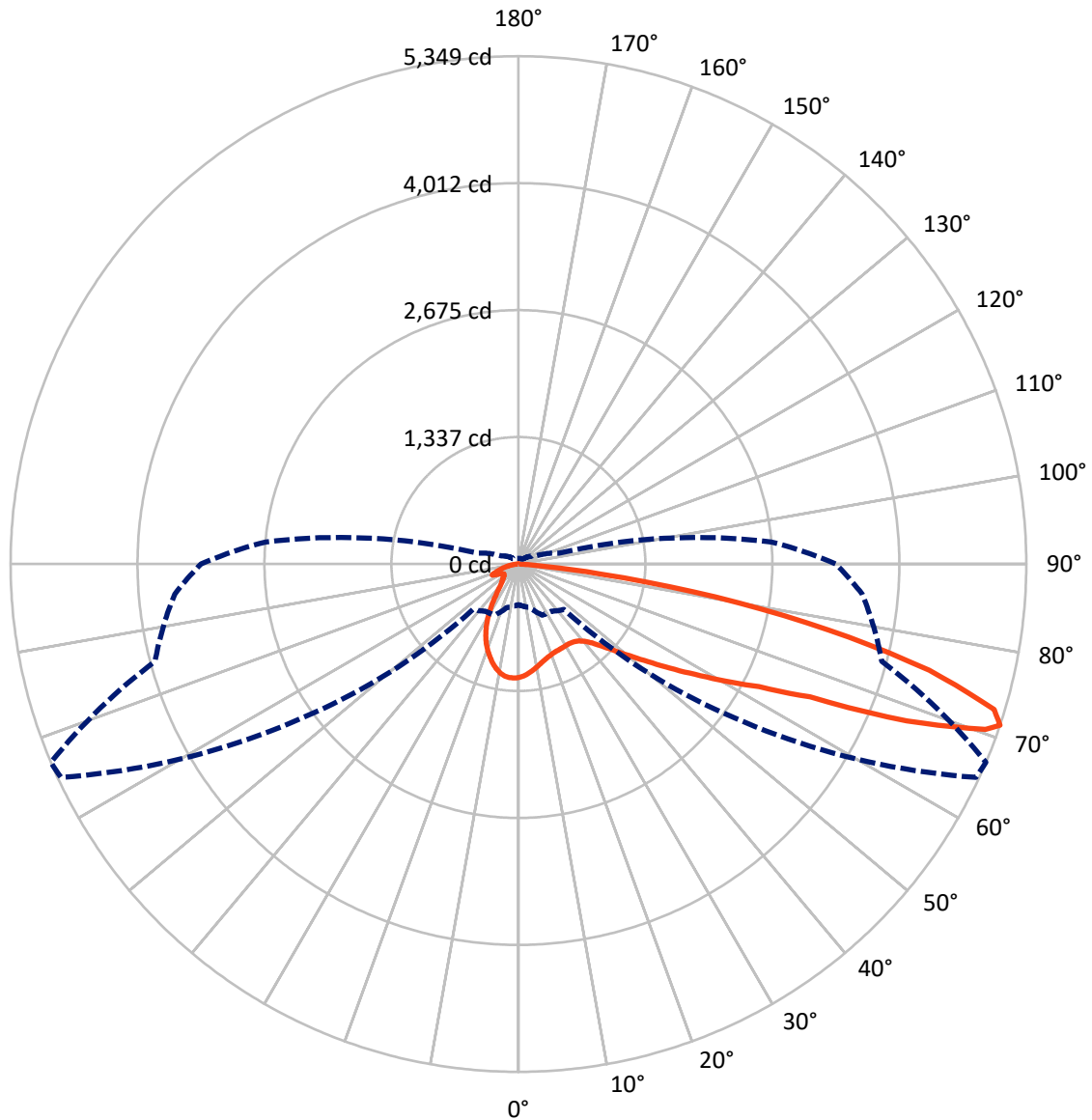


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1073.3	0.0	1073.3
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	4165.7	0.0	4165.7
	% Fixture	79.5	0.0	79.5
Total	Lumens	5239.0	0.0	5239.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	2.0
10°-20°	260.2	5.0
20°-30°	351.2	6.7
30°-40°	462.6	8.8
40°-50°	658.9	12.6
50°-60°	1006.6	19.2
60°-70°	1256.9	24.0
70°-80°	1014.5	19.4
80°-90°	122.3	2.3
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°	5239.0	100.0
0°-180°	5239.0	100.0



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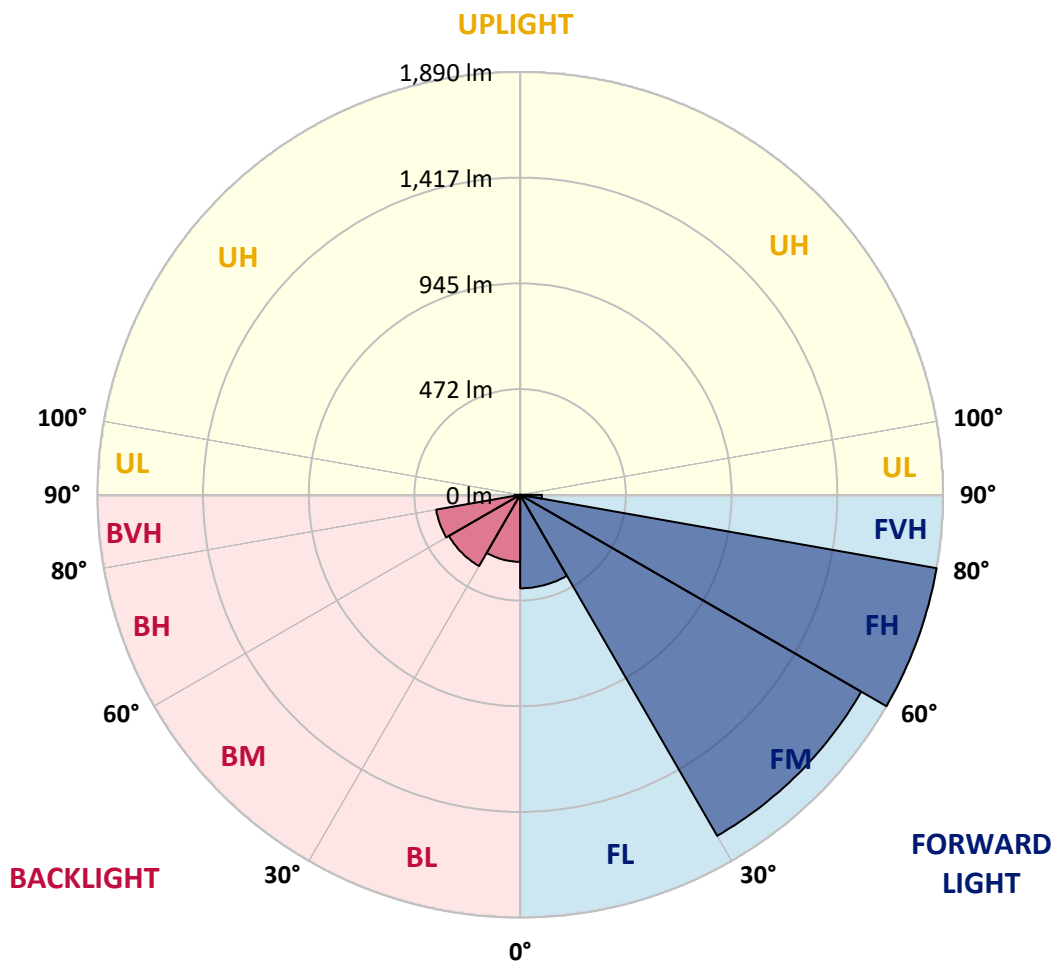
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.8	8.0			
FM	(30°-60°)	1760.4	33.6			
FH	(60°-80°)	1890.0	36.1			G2/5000
FVH	(80°-90°)	97.5	1.9			G1/100
BL	(0°-30°)	299.5	5.7	B1/500		
BM	(30°-60°)	367.7	7.0	B1/1000		
BH	(60°-80°)	381.4	7.3	B1/500		G1/500
BVH	(80°-90°)	24.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6
2.5°	1126.8	1132.0	1132.8	1143.3	1147.1	1159.2	1166.0	1177.3	1178.8	1185.6	1190.1
5°	1053.6	1054.4	1058.9	1067.9	1082.3	1104.1	1120.7	1148.6	1153.9	1173.5	1190.9
7.5°	988.0	991.8	999.3	1012.9	1029.5	1055.1	1080.7	1119.2	1126.8	1158.4	1191.6
10°	943.5	947.3	953.3	968.4	985.0	1013.6	1044.5	1089.0	1097.3	1141.1	1189.4
12.5°	908.0	911.8	916.3	932.9	951.0	979.7	1011.4	1061.1	1069.4	1120.0	1184.1
15°	884.7	885.4	891.4	905.0	925.4	953.3	985.0	1036.3	1046.1	1103.4	1182.6
17.5°	870.3	871.8	877.1	887.7	905.8	932.9	963.8	1015.9	1027.2	1089.8	1183.3
20°	871.1	872.6	875.6	879.4	892.2	915.6	948.0	1000.8	1012.1	1081.5	1188.6
22.5°	886.9	887.7	888.4	883.2	887.7	904.3	935.9	990.2	1002.3	1077.7	1194.6
25°	917.1	917.1	915.6	903.5	893.7	900.5	929.2	986.5	998.5	1074.7	1200.7
27.5°	958.6	961.6	954.0	939.7	917.1	905.8	927.6	983.5	995.5	1074.7	1203.7
30°	1015.1	1016.6	1013.6	994.8	957.8	926.9	932.2	981.2	993.3	1073.2	1204.4
32.5°	1072.5	1077.0	1080.7	1064.2	1019.7	964.6	950.3	984.2	994.8	1072.5	1202.2
35°	1130.5	1133.5	1151.6	1148.6	1100.4	1021.2	979.7	996.3	1005.3	1076.2	1203.7
37.5°	1180.3	1187.1	1213.5	1233.8	1196.1	1098.1	1030.2	1022.7	1028.0	1095.1	1212.0
40°	1233.8	1243.7	1282.9	1321.3	1304.7	1194.6	1101.9	1070.2	1068.7	1129.8	1232.3
42.5°	1294.2	1305.5	1356.0	1411.8	1417.1	1317.6	1197.6	1137.3	1135.8	1189.4	1276.8
45°	1365.1	1375.6	1444.3	1510.6	1543.1	1454.8	1315.3	1232.3	1233.1	1272.3	1347.7
47.5°	1452.6	1469.2	1535.5	1620.0	1678.1	1609.4	1457.8	1365.1	1359.0	1397.5	1463.9
50°	1575.5	1589.1	1644.1	1726.3	1828.1	1796.5	1637.3	1525.0	1520.4	1538.5	1619.2
52.5°	1704.5	1709.0	1735.4	1820.6	1991.8	2023.5	1858.3	1723.3	1706.0	1715.8	1812.3
55°	1712.0	1721.8	1739.2	1847.0	2138.9	2295.7	2101.9	1957.1	1934.5	1927.7	2031.8
57.5°	1555.1	1571.0	1593.6	1733.1	2144.9	2610.2	2448.1	2230.1	2189.4	2155.5	2266.3
60°	1222.5	1242.9	1284.4	1455.6	1991.8	2789.7	3025.8	2536.3	2500.1	2384.7	2495.6
62.5°	883.9	892.2	932.2	1009.1	1580.8	2800.3	3627.6	2936.0	2846.3	2608.0	2693.2
65°	712.0	725.5	737.6	736.8	935.9	2483.5	4027.4	3647.2	3376.5	2857.6	2910.4
67.5°	586.8	591.3	620.7	672.0	636.5	1534.0	4067.3	4686.5	4412.0	3194.0	3168.3
70°	490.2	491.7	521.1	613.2	609.4	791.9	3410.4	5284.6	5218.2	3746.0	3571.8
71°	429.1	442.0	474.4	593.5	606.4	676.5	2897.6	5316.3	5349.4	3962.5	3634.4
72.5°	337.9	337.9	383.9	544.5	611.6	624.5	2135.1	5143.5	5239.3	4208.4	3525.8
75°	198.4	196.8	221.7	379.4	625.2	622.2	1166.0	4274.7	4468.6	4252.9	3263.4
77.5°	111.6	113.9	127.5	211.2	496.3	597.3	669.7	3112.5	3341.0	3557.5	2759.6
80°	51.3	54.3	64.1	102.6	292.6	515.9	478.2	2021.2	2108.0	2138.1	1304.0
82.5°	13.6	15.1	19.6	39.2	113.1	351.5	353.7	846.2	874.1	505.3	279.8
85°	0.0	0.0	0.0	0.0	1.5	43.0	100.3	152.3	126.7	67.1	57.3
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	2.3	3.0	3.0	3.0	3.8
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°	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6
2.5°	1193.9	1196.9	1202.2	1201.4	1199.9	1190.9	1196.1	1190.9	1190.1	1187.8	1188.6
5°	1196.9	1201.4	1204.4	1197.6	1186.3	1166.7	1159.9	1142.6	1131.3	1125.2	1122.2
7.5°	1201.4	1204.4	1202.9	1184.1	1154.7	1117.7	1086.0	1061.1	1034.7	1030.2	1028.7
10°	1201.4	1204.4	1192.4	1156.2	1105.6	1047.6	999.3	958.6	917.8	902.8	905.0
12.5°	1198.4	1199.9	1172.0	1113.9	1040.8	961.6	893.7	826.6	774.5	742.9	736.8
15°	1196.1	1193.9	1144.9	1061.1	963.8	865.8	763.2	672.7	610.9	569.4	564.1
17.5°	1196.1	1187.8	1112.4	1000.8	880.1	745.1	609.4	511.3	442.7	418.6	417.8
20°	1197.6	1179.5	1077.7	938.2	776.1	601.8	454.8	371.1	345.4	341.6	342.4
22.5°	1199.2	1168.2	1040.0	867.3	659.9	448.7	325.1	294.9	297.1	306.2	305.4
25°	1197.6	1153.2	995.5	788.1	533.2	323.5	262.5	254.9	268.5	279.0	282.1
27.5°	1193.9	1133.5	948.0	693.9	406.5	254.9	229.3	228.5	242.1	251.9	251.1
30°	1182.6	1110.2	893.0	594.3	293.4	217.2	206.6	208.9	218.0	227.0	227.0
32.5°	1170.5	1083.8	834.9	485.7	225.5	196.8	193.1	193.8	199.9	206.6	205.9
35°	1157.7	1058.1	775.3	372.6	197.6	184.8	183.3	182.5	184.8	186.3	186.3
37.5°	1150.1	1035.5	709.7	280.6	182.5	177.2	174.2	171.2	170.4	168.9	167.4
40°	1153.2	1020.4	646.3	217.2	173.5	168.9	164.4	159.9	156.9	155.4	154.6
42.5°	1174.3	1015.9	576.2	187.0	165.2	161.4	155.4	147.8	144.8	144.8	144.0
45°	1223.3	1029.5	510.6	172.0	157.6	153.1	143.3	138.0	135.8	136.5	136.5
47.5°	1300.2	1067.9	451.8	164.4	152.3	145.6	134.2	129.0	127.5	128.2	128.2
50°	1415.6	1140.3	391.4	157.6	146.3	137.3	127.5	121.4	119.2	119.2	119.2
52.5°	1584.5	1259.5	347.7	153.1	141.0	130.5	120.7	113.9	110.9	110.9	110.1
55°	1790.4	1414.9	331.1	150.1	134.2	124.4	113.9	107.1	102.6	101.1	101.8
57.5°	2015.9	1616.2	355.2	149.3	126.7	117.7	107.1	98.8	94.3	93.5	92.8
60°	2248.2	1816.1	424.6	145.6	120.7	109.4	99.6	92.0	87.5	86.0	85.2
62.5°	2448.8	2015.2	539.2	142.5	116.1	101.8	91.3	84.5	80.7	78.4	78.4
65°	2690.9	2243.7	714.2	146.3	113.9	94.3	83.7	77.7	74.7	72.4	72.4
67.5°	3021.3	2582.3	847.0	164.4	119.2	88.2	75.4	70.9	68.6	67.1	67.1
70°	3346.3	2772.4	589.0	193.1	132.7	83.0	67.9	64.9	63.4	61.8	61.8
71°	3341.8	2670.6	442.7	199.9	137.3	81.5	64.9	62.6	61.1	60.3	59.6
72.5°	3174.4	2427.7	317.5	193.8	135.0	76.9	61.1	58.8	57.3	57.3	56.6
75°	2847.1	2139.6	248.1	162.2	113.1	68.6	54.3	52.8	51.3	50.5	51.3
77.5°	2332.7	1712.0	195.3	128.2	86.0	56.6	48.3	46.0	45.3	44.5	45.3
80°	1071.7	745.9	142.5	99.6	64.1	45.3	40.7	40.0	39.2	38.5	38.5
82.5°	257.9	208.9	76.2	66.4	43.7	34.7	32.4	32.4	32.4	31.7	31.7
85°	56.6	56.6	30.9	30.9	26.4	24.1	25.6	25.6	25.6	24.1	24.1
87.5°	3.0	9.1	9.8	14.3	15.1	14.3	17.3	18.1	17.3	16.6	15.8
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)