

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: P401290

Luminaire Tested: **ENT-SA1C-735-U-SL3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1C-735-U-SL3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4157 lumens
Efficiency: N/A
Efficacy: 124.8 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 - G1

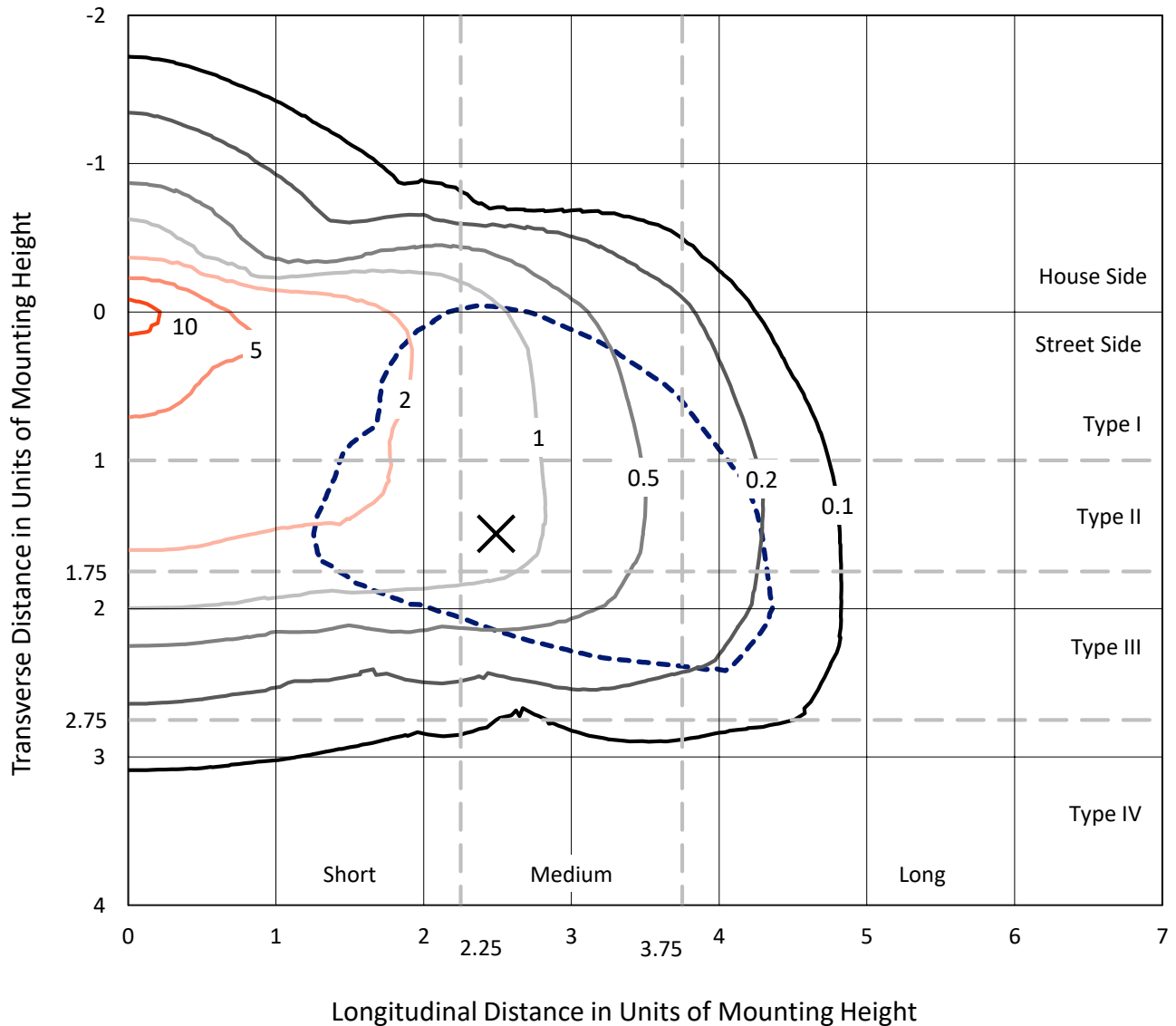
Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

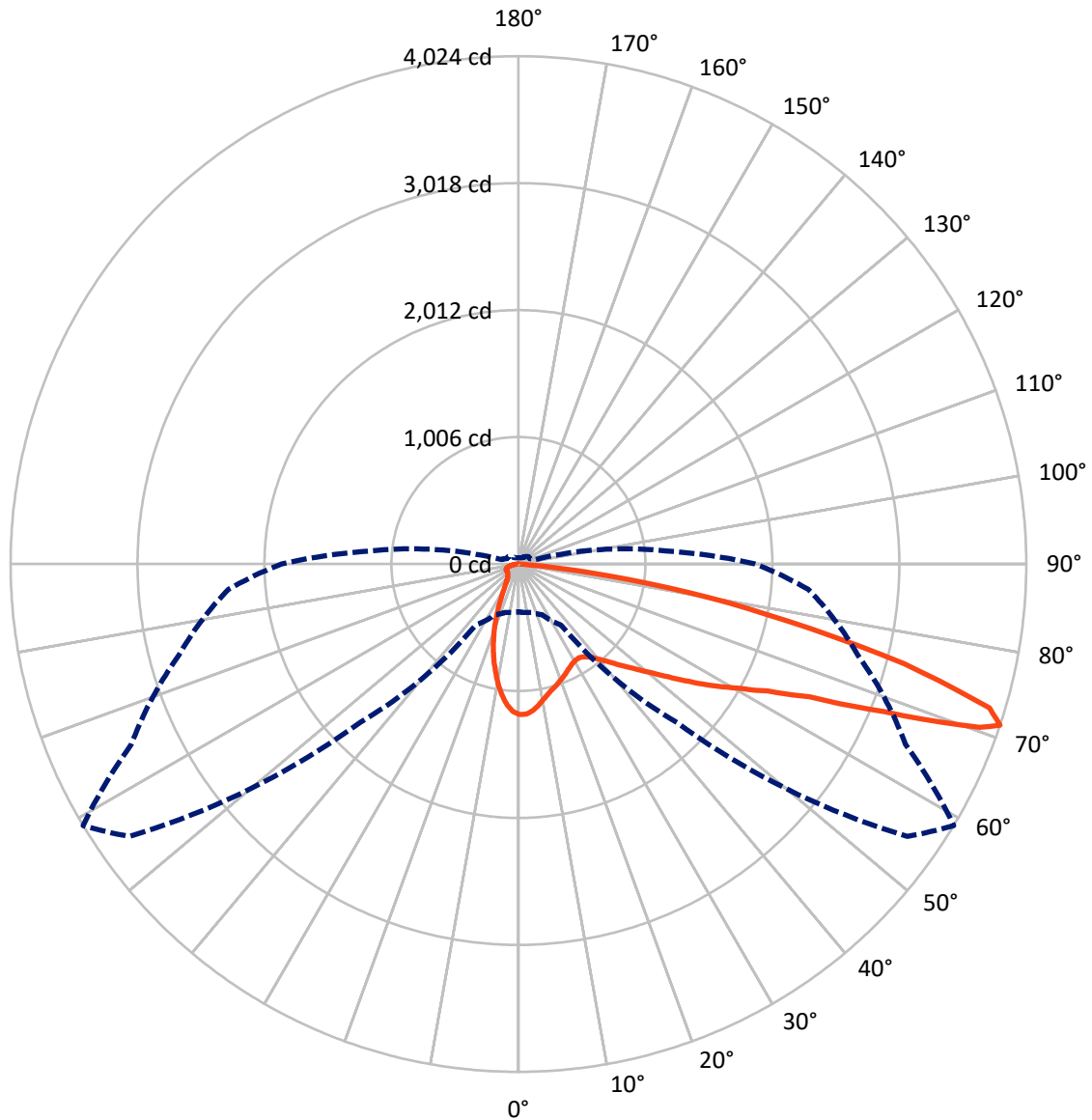
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	705.6	0.0	705.6
	% Fixture	17.0	0.0	17.0
Street Side	Lumens	3451.4	0.0	3451.4
	% Fixture	83.0	0.0	83.0
Total	Lumens	4157.0	0.0	4157.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	2.5
10°-20°	231.5	5.6
20°-30°	294.2	7.1
30°-40°	376.1	9.0
40°-50°	522.0	12.6
50°-60°	772.8	18.6
60°-70°	1044.6	25.1
70°-80°	740.7	17.8
80°-90°	71.9	1.7
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°	4157.0	100.0
0°-180°	4157.0	100.0



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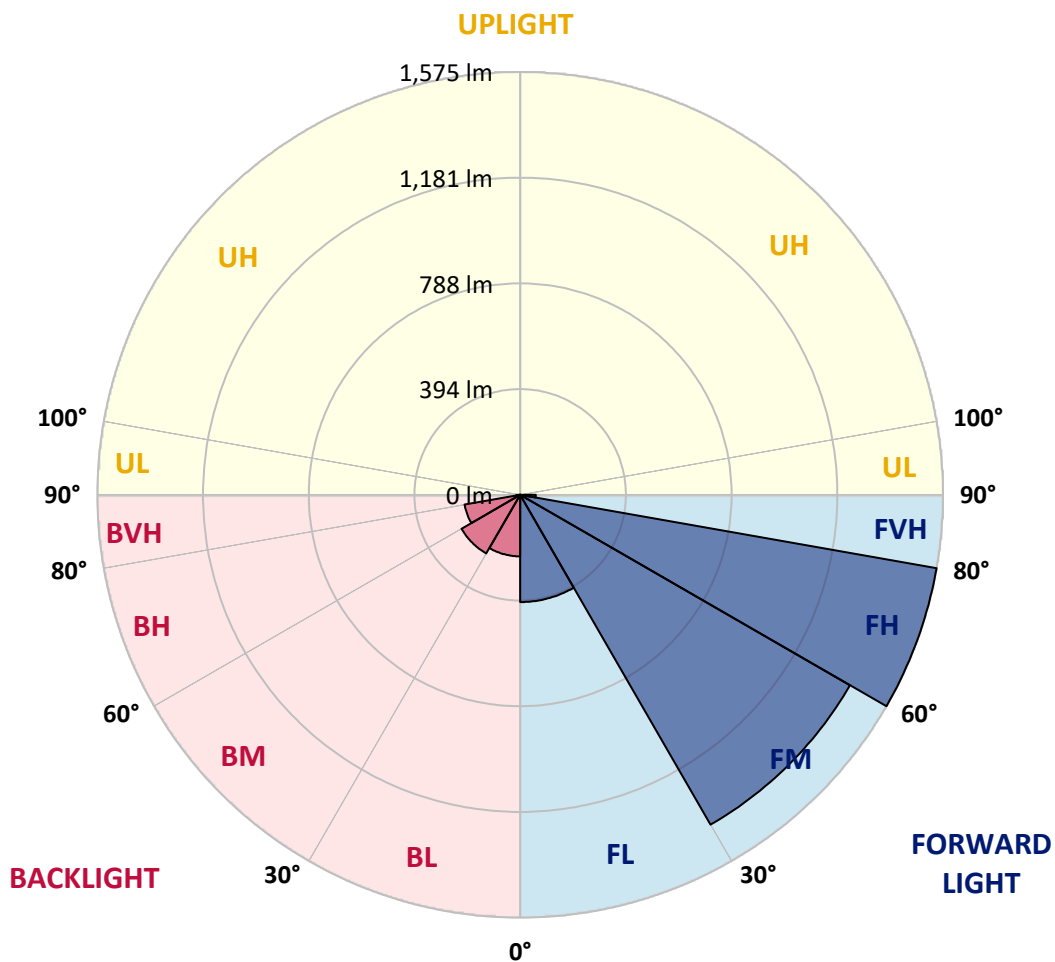
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	399.5	9.6			
FM	(30°-60°)	1418.6	34.1			
FH	(60°-80°)	1575.1	37.9			G1/1800
FVH	(80°-90°)	58.2	1.4			G1/100
BL	(0°-30°)	229.2	5.5	B1/500		
BM	(30°-60°)	252.3	6.1	B1/1000		
BH	(60°-80°)	210.3	5.1	B1/500		G1/500
BVH	(80°-90°)	13.7	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6
2.5°	1182.4	1186.6	1188.4	1191.4	1191.4	1192.6	1191.4	1190.8	1193.2	1190.8	1184.2
5°	1130.0	1131.8	1137.2	1143.2	1149.3	1161.9	1165.5	1167.9	1173.4	1174.6	1167.9
7.5°	1058.9	1065.5	1072.8	1080.6	1093.2	1110.7	1125.8	1131.8	1142.0	1148.1	1138.4
10°	998.7	1002.3	1005.9	1019.8	1039.6	1063.7	1079.4	1090.8	1107.1	1114.9	1105.9
12.5°	938.4	941.5	948.7	967.4	987.8	1016.8	1045.1	1054.1	1073.4	1089.0	1081.8
15°	892.1	892.1	897.5	918.0	939.7	978.2	1011.3	1025.2	1049.3	1071.6	1062.5
17.5°	851.1	852.9	856.5	869.8	899.9	940.3	982.4	999.9	1030.0	1058.9	1046.9
20°	828.2	827.0	829.4	836.0	860.1	902.9	953.5	974.0	1011.3	1051.1	1031.8
22.5°	820.4	819.2	817.4	816.8	832.4	868.6	922.8	948.1	994.5	1046.9	1018.0
25°	826.4	826.4	821.0	810.7	818.0	842.7	895.1	922.2	975.8	1043.9	1005.3
27.5°	842.7	842.7	834.8	821.6	818.6	829.4	871.0	899.9	960.1	1045.7	995.1
30°	865.0	864.4	856.5	845.1	836.0	832.4	859.5	886.0	949.3	1053.5	990.2
32.5°	890.3	889.1	885.4	877.6	866.8	851.1	860.7	884.2	946.9	1067.3	990.8
35°	920.4	918.6	920.4	916.2	905.9	889.1	883.0	901.7	958.9	1093.2	1001.1
37.5°	946.9	945.7	954.7	957.1	954.7	932.4	924.6	936.6	987.2	1134.2	1022.2
40°	969.2	970.4	986.6	1004.1	1007.7	988.4	983.0	993.3	1033.0	1184.2	1060.1
42.5°	993.9	997.5	1021.6	1052.9	1064.9	1052.3	1055.3	1062.5	1090.8	1252.3	1114.9
45°	1018.0	1025.8	1058.9	1099.3	1130.0	1130.0	1140.2	1147.5	1165.5	1337.8	1195.0
47.5°	1060.1	1065.5	1101.7	1150.5	1197.5	1212.5	1240.8	1238.4	1252.3	1431.8	1289.0
50°	1114.9	1124.0	1160.7	1211.3	1270.9	1313.7	1346.2	1351.0	1356.5	1528.1	1400.4
52.5°	1190.8	1201.7	1231.8	1278.8	1349.2	1419.1	1487.8	1484.8	1477.5	1632.9	1528.1
55°	1267.3	1278.8	1307.1	1345.0	1428.1	1535.4	1647.4	1643.2	1610.1	1740.2	1646.2
57.5°	1345.0	1354.7	1384.2	1417.3	1515.5	1672.7	1816.1	1819.1	1751.0	1859.4	1763.0
60°	1377.6	1392.0	1464.9	1528.7	1651.6	1825.1	1988.3	1996.2	1897.4	1979.9	1892.0
62.5°	1230.6	1248.0	1368.5	1540.8	1838.3	2119.0	2212.4	2217.2	2073.9	2113.0	2032.9
65°	910.7	910.1	1034.8	1292.6	1801.0	2513.6	2611.7	2535.9	2293.1	2289.5	2219.0
67.5°	521.6	537.3	577.0	771.0	1372.1	2586.4	3322.5	3124.3	2681.6	2564.2	2467.2
70°	420.4	416.8	428.9	480.7	748.1	2126.9	3785.7	3876.1	3233.4	2788.2	2411.2
71°	378.9	384.3	396.3	443.3	590.3	1774.5	3762.8	4023.6	3383.9	2782.2	2304.6
72.5°	325.9	327.1	354.8	410.2	484.9	1251.7	3479.1	3902.0	3541.8	2703.3	2147.9
75°	221.7	224.7	268.0	330.1	442.7	594.5	2489.5	3156.3	3223.7	2526.2	1773.9
77.5°	127.1	129.5	160.8	241.5	377.1	419.2	1528.1	2181.1	2317.8	1847.4	951.1
80°	65.7	68.7	89.1	152.4	287.9	339.1	876.4	1371.5	1318.5	638.5	220.5
82.5°	17.5	19.9	25.9	54.8	139.1	221.1	388.5	567.4	405.4	132.5	80.1
85°	0.0	0.0	0.0	0.6	1.2	30.7	81.9	101.8	56.6	25.9	21.7
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	1.2	1.2	1.2	1.8	2.4
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°	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6
2.5°	1183.0	1183.0	1179.4	1174.0	1167.9	1154.1	1156.5	1145.7	1146.9	1145.7	1145.7
5°	1162.5	1158.9	1149.9	1133.0	1114.3	1089.6	1086.0	1066.1	1054.7	1051.1	1055.3
7.5°	1134.2	1124.0	1101.1	1071.6	1036.0	1004.1	974.6	948.1	928.2	919.8	916.2
10°	1096.9	1084.2	1046.9	995.1	946.3	896.3	849.9	819.8	780.0	768.0	764.4
12.5°	1066.1	1044.5	988.4	916.2	840.3	774.0	711.4	648.1	610.2	583.1	578.8
15°	1039.6	1008.9	928.8	835.4	740.9	649.3	564.4	479.5	425.9	403.0	386.7
17.5°	1016.1	976.4	869.2	748.1	631.3	510.2	406.6	325.3	291.5	274.1	274.7
20°	992.1	941.5	807.1	660.8	522.8	388.5	287.3	249.4	232.5	228.9	227.1
22.5°	969.2	901.7	741.5	574.6	412.0	285.5	231.3	212.6	208.4	208.4	208.4
25°	943.3	861.3	675.2	486.7	312.0	225.3	198.8	192.1	193.4	195.8	196.4
27.5°	922.2	826.4	609.6	384.9	242.1	191.5	177.7	176.5	181.3	186.7	186.7
30°	903.5	794.5	538.5	300.6	192.7	168.1	163.2	165.0	169.9	174.7	176.5
32.5°	890.9	765.6	474.6	233.7	164.4	151.8	150.6	153.0	157.8	160.2	162.0
35°	885.4	744.5	406.0	188.5	146.4	139.7	139.1	140.9	143.4	144.0	143.4
37.5°	891.5	730.0	335.5	159.6	134.9	131.3	130.7	130.7	130.7	131.3	130.7
40°	908.9	724.6	272.3	140.9	127.7	124.7	122.9	121.1	119.9	119.9	119.3
42.5°	945.7	733.0	218.6	130.1	122.3	118.7	115.0	112.6	110.8	110.2	110.2
45°	1004.7	756.5	181.9	122.9	117.5	112.0	107.8	105.4	103.6	104.2	103.6
47.5°	1086.0	795.7	160.8	118.1	112.6	105.4	101.2	98.8	98.2	100.0	100.6
50°	1178.2	851.1	148.2	114.4	109.0	100.0	95.2	93.4	94.0	97.6	98.2
52.5°	1286.6	922.8	142.8	112.0	106.0	95.2	91.0	89.1	90.4	94.6	95.2
55°	1403.5	1004.7	150.6	113.2	103.0	92.2	87.3	84.9	86.7	90.4	91.0
57.5°	1522.1	1105.9	177.1	113.8	99.4	89.7	83.7	80.1	81.3	84.3	84.9
60°	1642.0	1206.5	222.9	114.4	98.2	87.3	80.7	75.3	75.9	77.7	78.3
62.5°	1782.9	1334.2	283.1	116.9	99.4	85.5	75.3	69.3	69.3	70.5	70.5
65°	1996.8	1524.5	322.9	115.6	102.4	83.7	69.9	63.8	63.2	63.8	63.8
67.5°	2150.4	1549.8	225.3	109.0	104.2	84.3	66.9	59.0	57.8	57.2	57.2
70°	1987.7	1304.1	148.8	103.0	101.2	85.5	64.5	56.0	53.6	51.8	51.2
71°	1875.1	1175.2	137.9	100.6	98.8	84.3	63.2	54.2	51.8	50.6	50.0
72.5°	1708.2	1048.7	127.1	97.0	93.4	81.9	61.4	52.4	49.4	47.6	47.0
75°	1349.8	804.1	111.4	89.1	80.7	67.5	56.6	48.8	45.8	43.4	42.8
77.5°	610.2	319.8	85.5	77.1	65.7	53.6	49.4	45.2	41.6	39.8	39.2
80°	170.5	121.7	62.6	60.8	49.4	41.6	39.8	38.5	37.3	34.9	34.9
82.5°	78.9	71.1	44.6	42.8	33.7	29.5	31.3	31.9	31.9	29.5	28.9
85°	21.7	23.5	20.5	22.9	21.7	19.9	22.9	24.7	25.9	23.5	21.7
87.5°	1.8	4.2	5.4	9.0	10.8	11.4	14.5	17.5	18.1	14.5	15.1
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)