

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: P401630

Luminaire Tested: **ENT-SA1E-730-U-SL2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401630
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-SA1E-730-U-SL2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 6328 lumens
Efficiency: N/A
Efficacy: 110.6 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

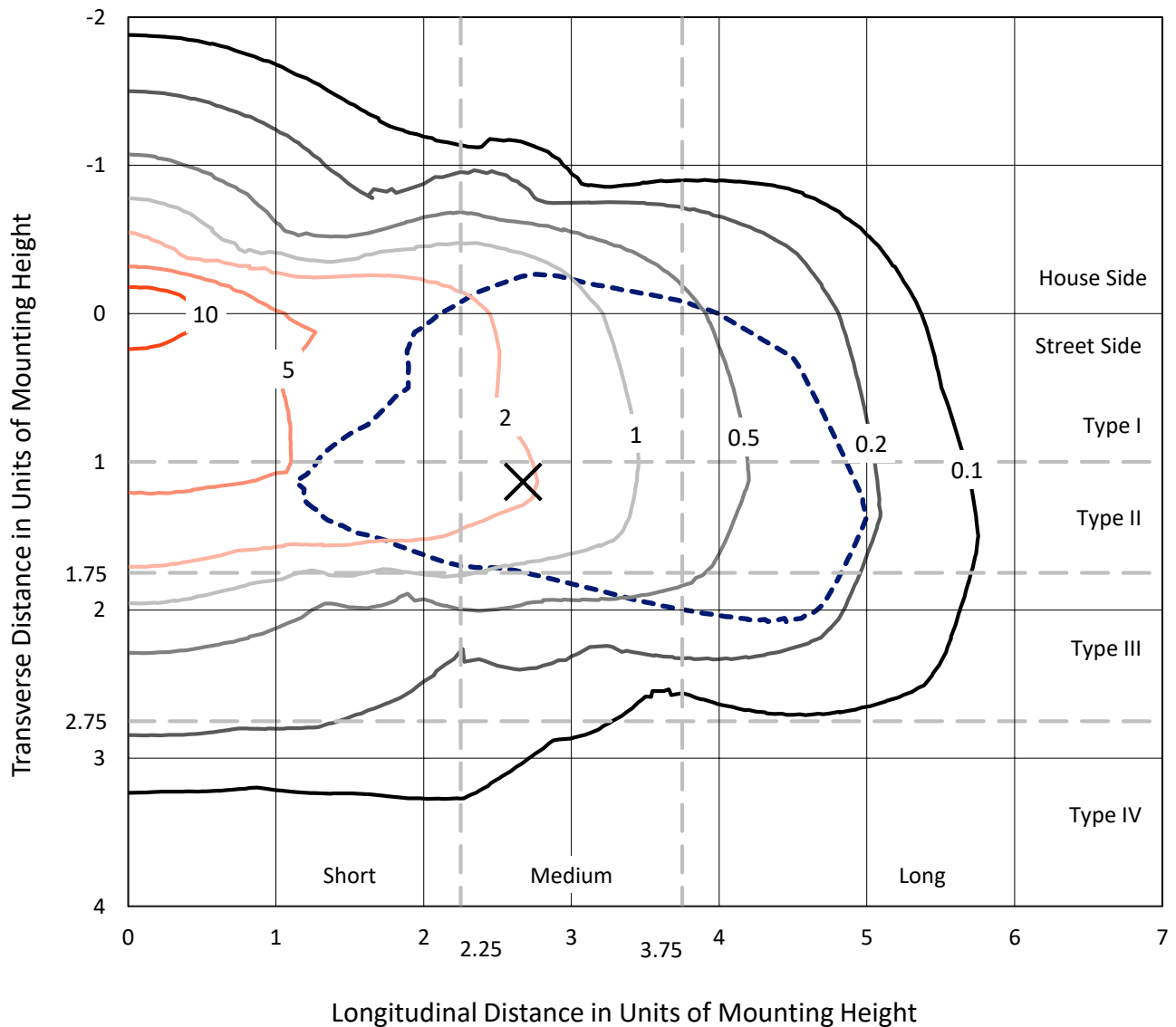
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

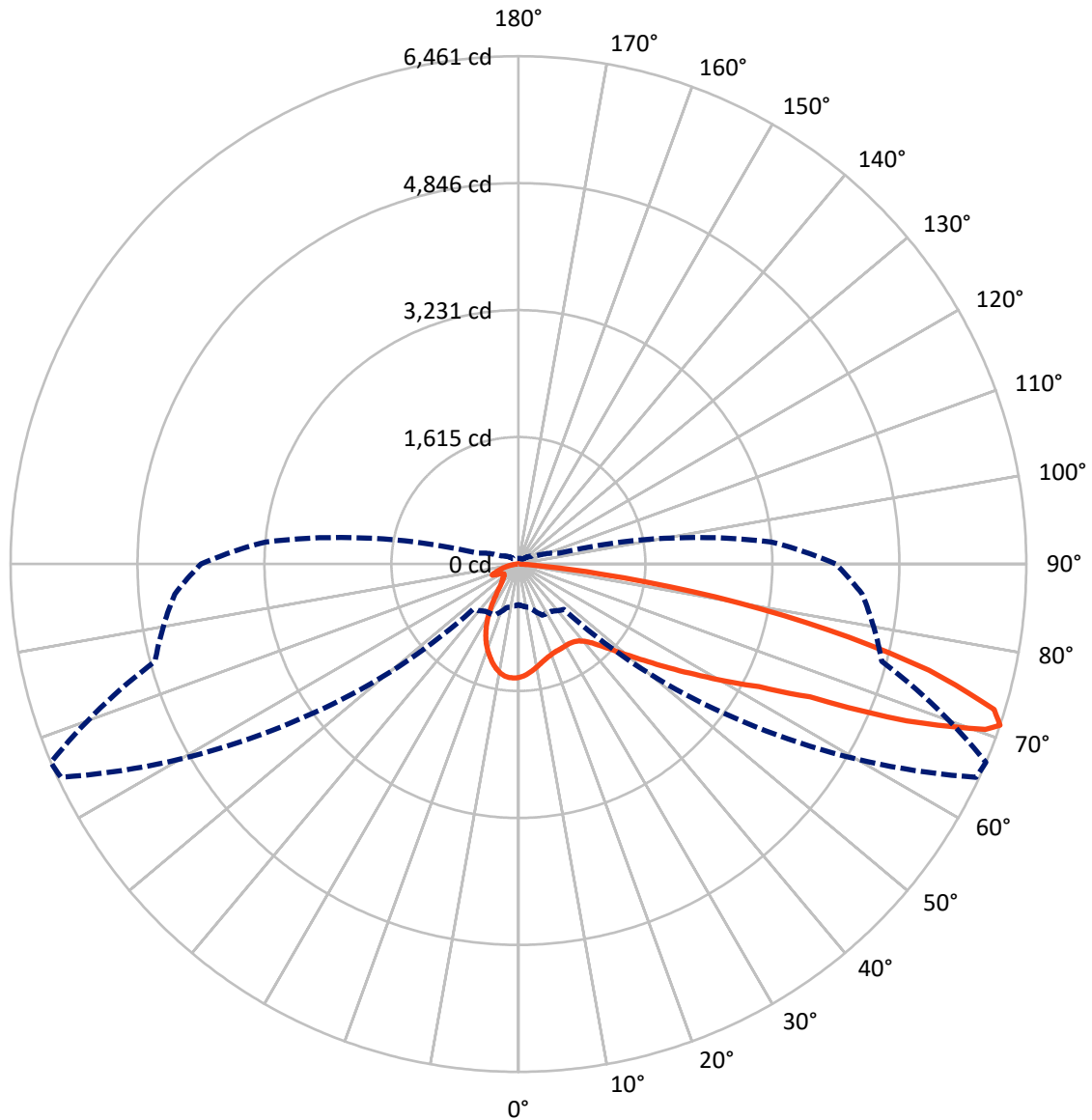
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 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	1296.4	0.0	1296.4
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	5031.6	0.0	5031.6
	% Fixture	79.5	0.0	79.5
Total	Lumens	6328.0	0.0	6328.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	2.0
10°-20°	314.2	5.0
20°-30°	424.2	6.7
30°-40°	558.8	8.8
40°-50°	795.9	12.6
50°-60°	1215.8	19.2
60°-70°	1518.1	24.0
70°-80°	1225.4	19.4
80°-90°	147.7	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°	6328.0	100.0
0°-180°	6328.0	100.0



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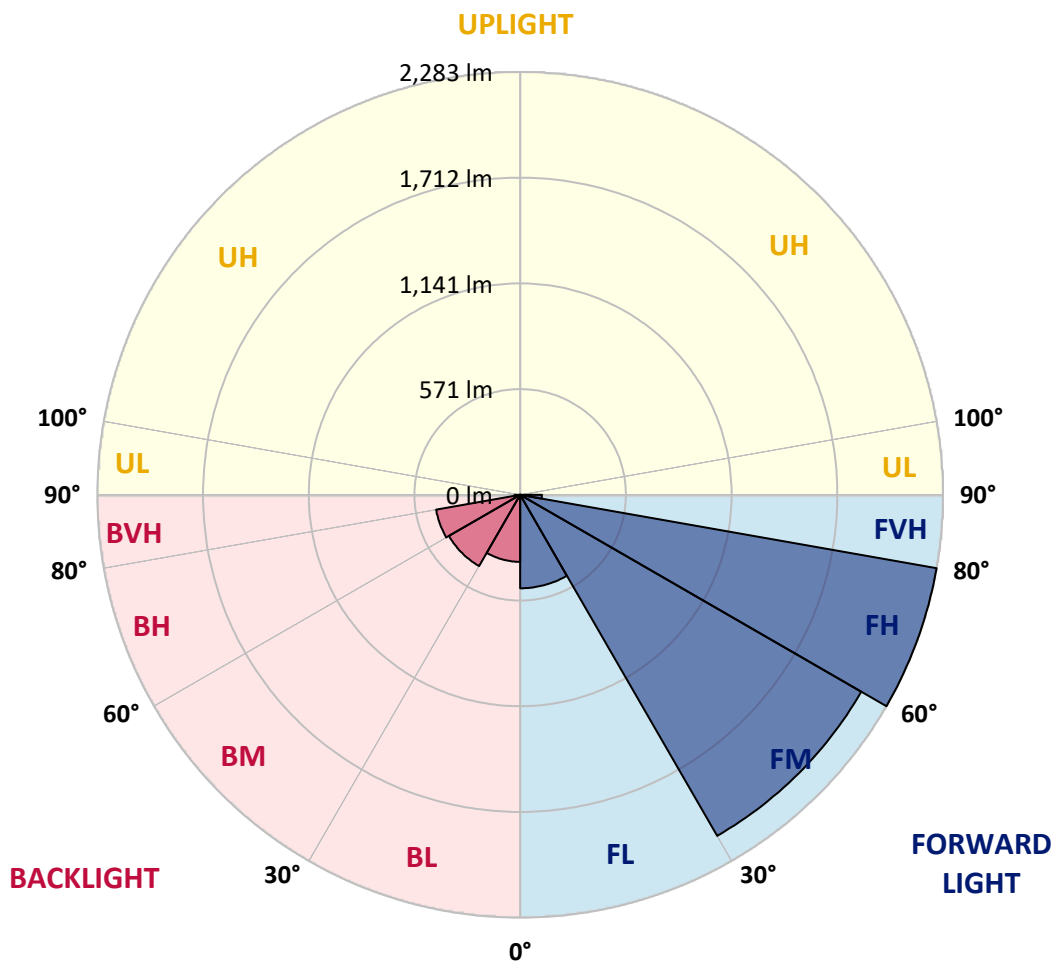
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	504.6	8.0			
FM	(30°-60°)	2126.3	33.6			
FH	(60°-80°)	2282.9	36.1			G2/5000
FVH	(80°-90°)	117.8	1.9			G2/225
BL	(0°-30°)	361.7	5.7	B1/500		
BM	(30°-60°)	444.1	7.0	B1/1000		
BH	(60°-80°)	460.7	7.3	B1/500		G1/500
BVH	(80°-90°)	29.9	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°	1443.0	1443.0	1443.0	1443.0	1443.0	1443.0	1443.0	1443.0	1443.0	1443.0	1443.0
2.5°	1361.0	1367.3	1368.3	1381.0	1385.6	1400.1	1408.3	1422.0	1423.8	1432.0	1437.5
5°	1272.6	1273.5	1279.0	1289.9	1307.2	1333.6	1353.7	1387.4	1393.8	1417.4	1438.4
7.5°	1193.4	1197.9	1207.0	1223.4	1243.5	1274.4	1305.4	1351.9	1361.0	1399.2	1439.3
10°	1139.6	1144.2	1151.4	1169.7	1189.7	1224.3	1261.7	1315.4	1325.4	1378.3	1436.6
12.5°	1096.8	1101.3	1106.8	1126.9	1148.7	1183.3	1221.6	1281.7	1291.7	1352.8	1430.2
15°	1068.5	1069.5	1076.7	1093.1	1117.7	1151.4	1189.7	1251.7	1263.5	1332.7	1428.4
17.5°	1051.2	1053.1	1059.4	1072.2	1094.1	1126.9	1164.2	1227.1	1240.7	1316.3	1429.3
20°	1052.2	1054.0	1057.6	1062.2	1077.7	1105.9	1145.1	1208.8	1222.5	1306.3	1435.7
22.5°	1071.3	1072.2	1073.1	1066.7	1072.2	1092.2	1130.5	1196.1	1210.7	1301.8	1443.0
25°	1107.7	1107.7	1105.9	1091.3	1079.5	1087.7	1122.3	1191.5	1206.1	1298.1	1450.2
27.5°	1157.8	1161.5	1152.4	1135.0	1107.7	1094.1	1120.5	1187.9	1202.5	1298.1	1453.9
30°	1226.1	1228.0	1224.3	1201.5	1156.9	1119.6	1125.9	1185.2	1199.7	1296.3	1454.8
32.5°	1295.4	1300.8	1305.4	1285.4	1231.6	1165.1	1147.8	1188.8	1201.5	1295.4	1452.1
35°	1365.5	1369.2	1391.0	1387.4	1329.1	1233.4	1183.3	1203.4	1214.3	1299.9	1453.9
37.5°	1425.6	1433.8	1465.7	1490.3	1444.8	1326.3	1244.4	1235.3	1241.6	1322.7	1463.9
40°	1490.3	1502.2	1549.5	1596.0	1576.0	1443.0	1330.9	1292.6	1290.8	1364.6	1488.5
42.5°	1563.2	1576.9	1637.9	1705.3	1711.7	1591.4	1446.6	1373.7	1371.9	1436.6	1542.2
45°	1648.8	1661.6	1744.5	1824.6	1863.8	1757.2	1588.7	1488.5	1489.4	1536.8	1627.9
47.5°	1754.5	1774.5	1854.7	1956.7	2026.9	1944.0	1760.9	1648.8	1641.5	1688.0	1768.2
50°	1903.0	1919.4	1985.9	2085.2	2208.2	2169.9	1977.7	1841.9	1836.5	1858.3	1955.8
52.5°	2058.8	2064.2	2096.1	2199.0	2405.8	2444.1	2244.6	2081.5	2060.6	2072.4	2189.0
55°	2067.9	2079.7	2100.7	2230.9	2583.5	2772.9	2538.8	2363.9	2336.6	2328.4	2454.1
57.5°	1878.4	1897.5	1924.8	2093.4	2590.8	3152.8	2957.0	2693.7	2644.5	2603.5	2737.4
60°	1476.7	1501.3	1551.4	1758.1	2405.8	3369.6	3654.7	3063.5	3019.8	2880.4	3014.3
62.5°	1067.6	1077.7	1125.9	1218.9	1909.4	3382.4	4381.7	3546.3	3437.9	3150.1	3253.0
65°	859.9	876.3	890.9	890.0	1130.5	2999.8	4864.5	4405.4	4078.3	3451.6	3515.4
67.5°	708.7	714.2	749.7	811.7	768.8	1852.9	4912.8	5660.7	5329.1	3857.9	3826.9
70°	592.1	593.9	629.5	740.6	736.1	956.5	4119.3	6383.1	6302.9	4524.7	4314.3
71°	518.3	533.8	573.0	716.9	732.4	817.1	3499.9	6421.3	6461.4	4786.2	4389.9
72.5°	408.1	408.1	463.7	657.7	738.8	754.3	2578.9	6212.7	6328.4	5083.1	4258.7
75°	239.6	237.8	267.8	458.2	755.2	751.5	1408.3	5163.3	5397.4	5136.9	3941.7
77.5°	134.8	137.6	154.0	255.1	599.4	721.5	808.9	3759.5	4035.5	4297.0	3333.2
80°	61.9	65.6	77.4	123.9	353.5	623.1	577.5	2441.4	2546.1	2582.6	1575.0
82.5°	16.4	18.2	23.7	47.4	136.6	424.5	427.2	1022.1	1055.8	610.3	338.0
85°	0.0	0.0	0.0	0.0	1.8	51.9	121.2	184.0	153.0	81.1	69.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	2.7	3.6	3.6	3.6	4.6
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°	1443.0	1443.0	1443.0	1443.0	1443.0	1443.0	1443.0	1443.0	1443.0	1443.0	1443.0
2.5°	1442.0	1445.7	1452.1	1451.2	1449.3	1438.4	1444.8	1438.4	1437.5	1434.8	1435.7
5°	1445.7	1451.2	1454.8	1446.6	1432.9	1409.2	1401.0	1380.1	1366.4	1359.1	1355.5
7.5°	1451.2	1454.8	1453.0	1430.2	1394.7	1350.0	1311.8	1281.7	1249.8	1244.4	1242.5
10°	1451.2	1454.8	1440.2	1396.5	1335.5	1265.3	1207.0	1157.8	1108.6	1090.4	1093.1
12.5°	1447.5	1449.3	1415.6	1345.5	1257.1	1161.5	1079.5	998.4	935.6	897.3	890.0
15°	1444.8	1442.0	1382.8	1281.7	1164.2	1045.8	921.9	812.6	737.9	687.8	681.4
17.5°	1444.8	1434.8	1343.7	1208.8	1063.1	900.0	736.1	617.6	534.7	505.6	504.7
20°	1446.6	1424.7	1301.8	1133.2	937.4	726.9	549.3	448.2	417.2	412.7	413.6
22.5°	1448.4	1411.1	1256.2	1047.6	797.1	542.0	392.6	356.2	358.9	369.8	368.9
25°	1446.6	1392.8	1202.5	951.9	644.0	390.8	317.0	307.9	324.3	337.1	340.7
27.5°	1442.0	1369.2	1145.1	838.1	491.0	307.9	276.9	276.0	292.4	304.3	303.3
30°	1428.4	1340.9	1078.6	717.8	354.4	262.4	249.6	252.3	263.3	274.2	274.2
32.5°	1413.8	1309.0	1008.4	586.7	272.4	237.8	233.2	234.1	241.4	249.6	248.7
35°	1398.3	1278.1	936.5	450.0	238.7	223.2	221.4	220.5	223.2	225.0	225.0
37.5°	1389.2	1250.7	857.2	338.9	220.5	214.1	210.4	206.8	205.9	204.1	202.2
40°	1392.8	1232.5	780.7	262.4	209.5	204.1	198.6	193.1	189.5	187.7	186.7
42.5°	1418.4	1227.1	696.0	225.9	199.5	194.9	187.7	178.5	174.9	174.9	174.0
45°	1477.6	1243.5	616.7	207.7	190.4	184.9	173.1	166.7	164.0	164.9	164.9
47.5°	1570.5	1289.9	545.7	198.6	184.0	175.8	162.1	155.8	154.0	154.9	154.9
50°	1709.9	1377.4	472.8	190.4	176.7	165.8	154.0	146.7	143.9	143.9	143.9
52.5°	1913.9	1521.3	419.9	184.9	170.3	157.6	145.8	137.6	133.9	133.9	133.0
55°	2162.6	1709.0	399.9	181.3	162.1	150.3	137.6	129.4	123.9	122.1	123.0
57.5°	2435.0	1952.2	429.1	180.4	153.0	142.1	129.4	119.3	113.9	113.0	112.0
60°	2715.6	2193.6	512.9	175.8	145.8	132.1	120.2	111.1	105.7	103.8	102.9
62.5°	2957.9	2434.1	651.3	172.2	140.3	123.0	110.2	102.0	97.5	94.7	94.7
65°	3250.3	2710.1	862.7	176.7	137.6	113.9	101.1	93.8	90.2	87.5	87.5
67.5°	3649.3	3119.1	1023.0	198.6	143.9	106.6	91.1	85.6	82.9	81.1	81.1
70°	4041.9	3348.7	711.5	233.2	160.3	100.2	82.0	78.3	76.5	74.7	74.7
71°	4036.4	3225.7	534.7	241.4	165.8	98.4	78.3	75.6	73.8	72.9	72.0
72.5°	3834.2	2932.4	383.5	234.1	163.1	92.9	73.8	71.1	69.2	69.2	68.3
75°	3438.9	2584.4	299.7	195.9	136.6	82.9	65.6	63.8	61.9	61.0	61.9
77.5°	2817.6	2067.9	235.9	154.9	103.8	68.3	58.3	55.6	54.7	53.7	54.7
80°	1294.5	900.9	172.2	120.2	77.4	54.7	49.2	48.3	47.4	46.5	46.5
82.5°	311.5	252.3	92.0	80.2	52.8	41.9	39.2	39.2	39.2	38.3	38.3
85°	68.3	68.3	37.3	37.3	31.9	29.2	31.0	31.0	31.0	29.2	29.2
87.5°	3.6	10.9	11.8	17.3	18.2	17.3	21.0	21.9	21.0	20.0	19.1
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)