

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: P597066

Luminaire Tested: **MSA-SA3C-835-U-T4FT**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3C-835-U-T4FT
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15043 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

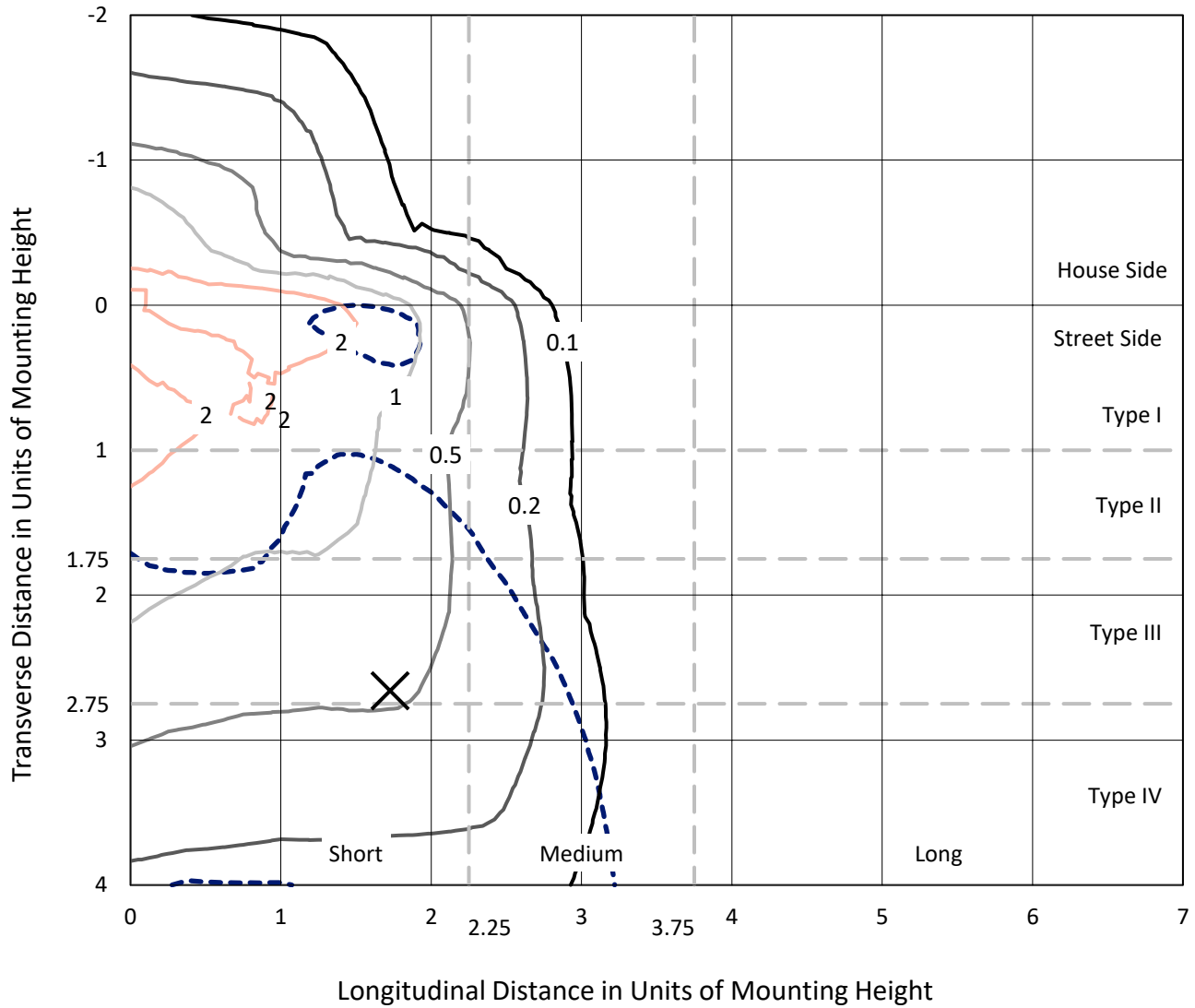
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

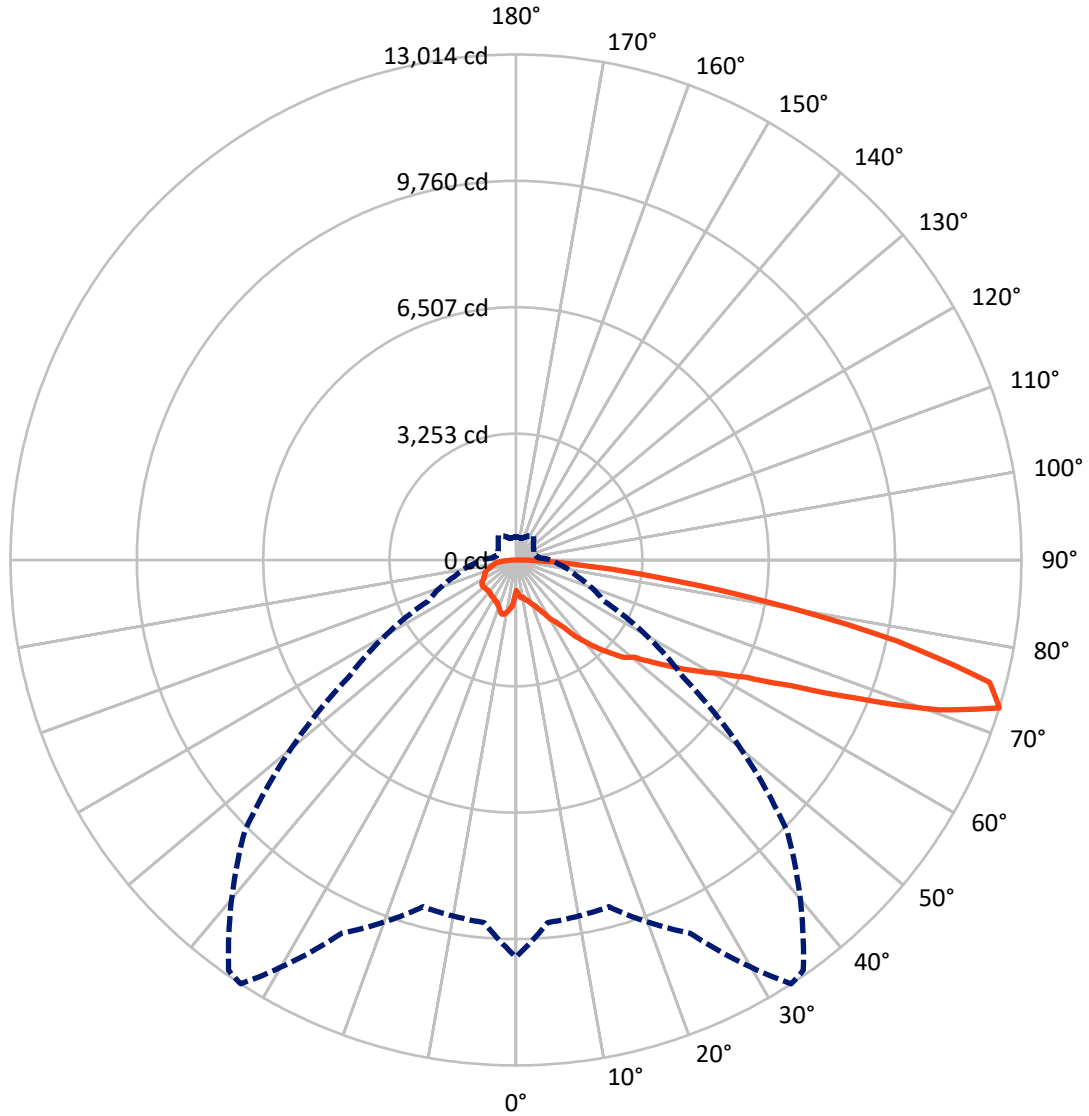
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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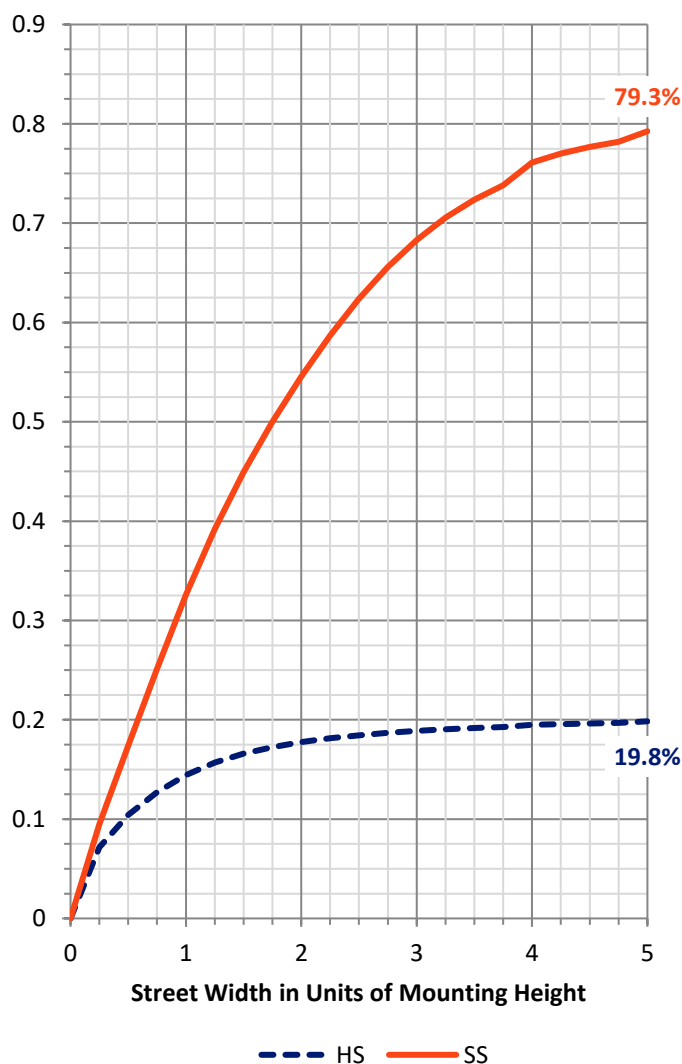
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3043.2	0.0	3043.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	11999.8	0.0	11999.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	15043.0	0.0	15043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	0.7
10°-20°	400.8	2.7
20°-30°	730.9	4.9
30°-40°	1236.5	8.2
40°-50°	2057.0	13.7
50°-60°	3018.9	20.1
60°-70°	3861.9	25.7
70°-80°	3142.0	20.9
80°-90°	486.6	3.2
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°	15043.0	100.0
0°-180°	15043.0	100.0

Coefficient of Utilization



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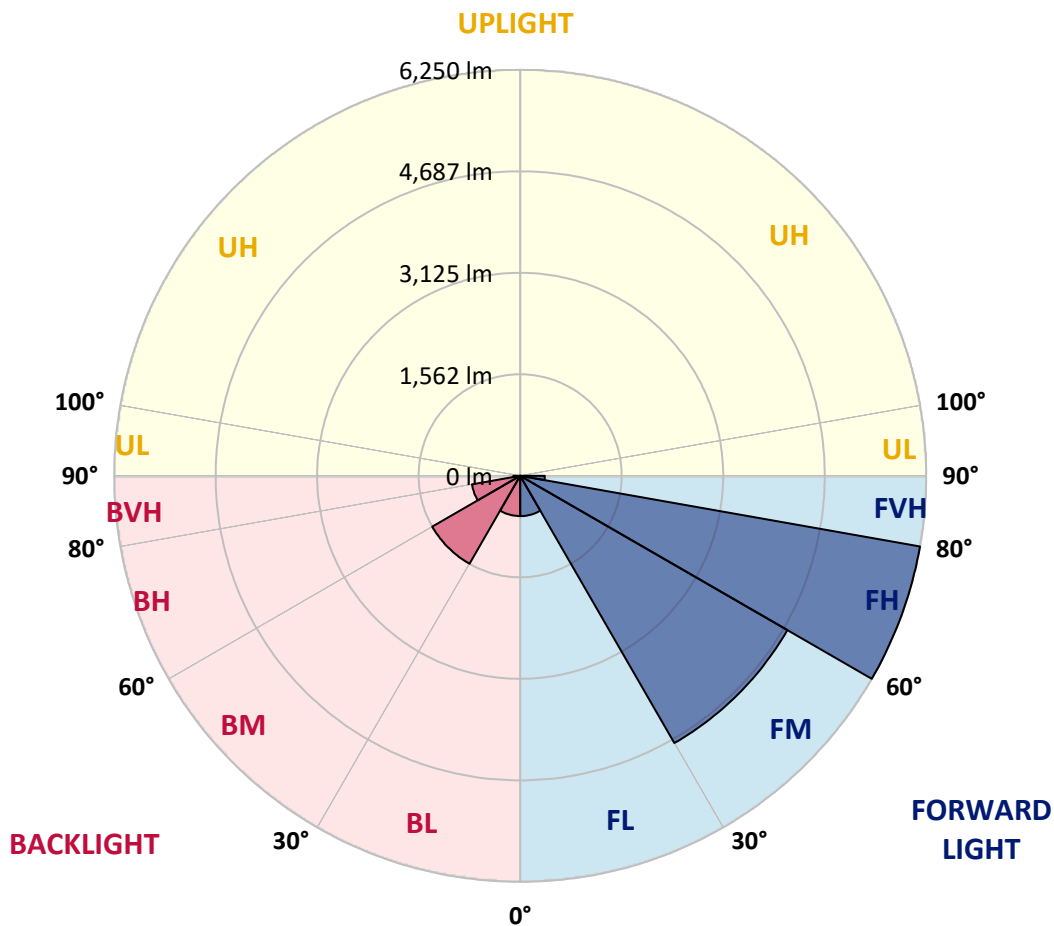
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.8	4.1			
FM (30°-60°)	4749.4	31.6			
FH (60°-80°)	6249.8	41.5			G3/7500
FVH (80°-90°)	379.8	2.5			G3/500
BL (0°-30°)	619.3	4.1	B2/1000		
BM (30°-60°)	1563.0	10.4	B2/2500		
BH (60°-80°)	754.0	5.0	B2/1000		G2/1000
BVH (80°-90°)	106.8	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8
2.5°	894.3	866.2	820.0	818.8	844.3	850.0	866.8	868.1	874.3	864.3	935.4
5°	986.6	956.7	938.6	944.8	933.0	947.3	947.3	988.5	1043.4	1107.1	1197.5
7.5°	1008.5	986.6	966.0	981.6	984.1	970.4	983.5	1080.2	1179.5	1243.1	1387.9
10°	964.8	942.9	958.5	963.5	962.9	994.1	1062.1	1139.5	1250.0	1367.3	1445.3
12.5°	956.7	972.3	979.8	988.5	1047.8	1057.1	1160.1	1240.0	1351.1	1454.0	1656.8
15°	1077.1	1097.7	1051.5	1048.4	1067.7	1076.5	1183.2	1263.7	1425.9	1598.8	1781.0
17.5°	1248.7	1256.2	1173.2	1130.8	1145.1	1152.0	1198.8	1299.9	1399.7	1719.3	1946.4
20°	1414.7	1419.7	1263.7	1168.8	1219.4	1226.9	1270.6	1328.6	1407.2	1786.6	2058.1
22.5°	1588.8	1557.0	1386.0	1266.2	1295.5	1297.4	1323.0	1354.8	1466.5	1776.0	2194.2
25°	1779.2	1759.2	1543.9	1429.1	1427.8	1402.2	1403.5	1449.0	1529.5	1889.6	2283.4
27.5°	2031.9	2034.4	1721.7	1660.0	1563.2	1546.4	1462.1	1547.0	1638.7	1890.9	2476.2
30°	2359.5	2299.0	1969.5	1869.6	1774.2	1738.6	1624.4	1696.8	1736.7	1998.8	2685.9
32.5°	2626.0	2608.5	2227.9	2076.8	1920.8	1962.0	1835.9	1772.3	1844.1	2184.8	3003.5
35°	2881.2	2823.8	2501.2	2304.6	2140.5	2115.5	2033.8	2044.4	2088.1	2420.1	3418.5
37.5°	3261.9	3230.7	2888.1	2573.6	2496.8	2395.1	2343.3	2376.4	2342.1	2721.5	4040.7
40°	3687.5	3506.5	3211.3	2931.2	2787.6	2715.9	2734.0	2702.8	2676.5	3059.7	4598.6
42.5°	4095.0	3930.3	3426.0	3300.0	3112.8	3142.7	3043.5	3065.3	3139.6	3539.6	5114.7
45°	4538.7	4182.4	3653.8	3542.7	3408.5	3446.6	3525.9	3502.2	3623.8	4105.6	5600.8
47.5°	4760.2	4421.4	3933.4	3752.4	3750.5	3671.3	4153.7	4206.1	4015.7	4525.0	6094.5
50°	4973.7	4640.4	4141.2	4018.9	3930.3	4100.0	4755.9	4635.4	4370.2	5006.1	6637.4
52.5°	5270.7	4890.7	4379.6	4249.1	4359.0	4516.2	5236.4	5212.7	4717.8	5501.0	7109.2
55°	5497.2	5113.4	4738.4	4617.3	4827.0	4981.1	5725.6	5582.7	5015.5	5864.2	7408.1
57.5°	5894.1	5500.4	5268.2	4999.2	5376.2	5373.7	6197.4	6087.0	5333.7	6162.5	7528.5
60°	6525.0	6062.6	5819.9	5509.7	5913.5	6057.6	6736.6	6418.3	5559.0	6350.9	7311.3
62.5°	7410.6	6861.4	6467.6	6160.6	6653.0	6913.8	7402.5	6659.8	5573.4	6297.3	6740.3
65°	8505.8	7838.0	7322.0	6997.4	7810.0	8182.5	8207.5	6809.0	5441.1	5742.5	5539.7
67.5°	9574.1	8823.4	8284.9	8346.6	9533.0	9709.6	9079.9	6933.8	4730.3	4611.1	3846.6
70°	10277.4	9463.7	9104.9	9760.1	11562.4	11381.4	9786.9	6604.9	3724.9	2989.2	2166.1
72.5°	10224.4	9372.6	9243.4	10600.1	13013.9	12900.9	9873.1	5252.6	2494.9	1634.4	1080.2
75°	8329.8	7667.7	7961.0	10034.7	12595.8	12590.2	8571.9	3251.3	1279.9	839.3	682.7
77.5°	4605.5	4348.4	5210.2	7597.8	10029.1	10080.2	5791.8	1474.6	690.2	594.7	514.2
80°	1613.2	1589.4	2257.8	4100.0	6597.4	6609.9	2693.4	674.6	501.7	449.9	377.5
82.5°	589.7	584.7	936.1	1904.6	3632.6	3624.5	1021.6	420.0	371.9	318.3	249.0
85°	235.3	230.3	428.1	845.6	1668.7	1641.9	396.9	238.4	243.4	189.7	122.3
87.5°	64.9	67.4	145.4	264.6	511.1	473.7	99.8	80.5	98.6	77.4	38.7
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°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8
2.5°	947.9	954.2	892.4	914.2	942.3	957.3	964.8	933.0	943.6	988.5	986.6
5°	1216.3	1191.3	1167.6	1191.9	1175.7	1152.6	1190.1	1188.2	1212.5	1236.9	1242.5
7.5°	1416.6	1384.1	1372.9	1318.0	1263.1	1207.5	1255.6	1285.5	1291.8	1352.3	1377.9
10°	1489.0	1476.5	1480.9	1408.5	1401.6	1407.2	1362.9	1314.9	1344.2	1319.2	1338.0
12.5°	1656.2	1687.4	1610.0	1560.7	1556.4	1522.1	1433.4	1402.2	1369.2	1403.5	1386.0
15°	1790.4	1848.4	1765.4	1678.7	1580.7	1527.7	1452.2	1404.7	1382.9	1390.4	1369.2
17.5°	1987.0	2041.3	1830.3	1697.4	1596.3	1518.3	1402.9	1301.8	1355.4	1359.8	1335.5
20°	2117.4	2121.1	1852.2	1651.2	1560.1	1424.7	1312.4	1223.8	1285.5	1348.6	1376.0
22.5°	2244.7	2216.6	1879.0	1614.4	1428.4	1297.4	1242.5	1236.9	1283.0	1336.1	1342.3
25°	2340.2	2344.5	1894.6	1600.7	1351.1	1172.6	1172.6	1213.1	1253.7	1379.8	1373.5
27.5°	2571.7	2401.3	1834.1	1537.7	1243.7	1099.6	1173.2	1227.5	1246.8	1383.5	1397.2
30°	2740.2	2629.1	1846.6	1429.7	1135.1	1065.2	1125.8	1193.8	1247.5	1405.4	1400.4
32.5°	3022.9	2724.0	1875.9	1278.0	1054.0	1052.1	1105.8	1177.6	1241.9	1381.6	1389.1
35°	3335.5	3003.5	1794.1	1162.6	1034.7	1044.7	1113.9	1142.6	1218.1	1372.3	1379.1
37.5°	3914.0	3149.6	1742.3	1073.4	1022.2	1050.9	1077.1	1121.4	1197.5	1325.5	1370.4
40°	4253.5	3450.4	1550.1	1021.6	996.0	1045.9	1059.0	1096.5	1137.6	1269.3	1298.0
42.5°	4700.3	3545.2	1386.0	964.2	982.9	1025.3	1064.6	1074.0	1101.4	1180.7	1233.1
45°	5072.9	3616.4	1211.9	918.0	938.6	1070.9	1073.4	1069.0	1064.0	1093.3	1136.4
47.5°	5458.5	3807.3	1051.5	866.8	921.7	1108.3	1077.7	1037.8	1017.2	1020.9	1060.9
50°	5884.1	3945.9	937.9	825.0	925.5	1108.3	1098.9	1006.0	964.8	954.2	996.0
52.5°	6258.6	3962.1	851.8	791.3	909.9	1070.2	1113.3	986.0	916.7	891.1	930.5
55°	6462.6	3756.8	789.4	760.7	869.9	1035.9	1105.8	974.8	858.7	839.3	874.3
57.5°	6458.3	3416.0	736.4	718.3	824.4	987.9	1064.0	913.6	823.1	811.9	846.2
60°	6225.5	3016.6	695.8	683.3	777.6	918.0	989.1	873.7	788.8	783.2	820.6
62.5°	5697.6	2604.2	656.5	646.5	733.9	868.7	953.5	829.4	753.2	752.6	788.2
65°	4666.0	2090.6	619.7	617.2	693.3	820.0	919.8	791.9	716.4	728.9	765.1
67.5°	3215.1	1469.0	580.4	587.9	655.9	773.2	894.3	767.0	677.7	703.3	735.8
70°	1764.2	908.6	536.7	551.7	608.4	718.9	854.3	726.4	627.2	666.5	688.9
72.5°	897.4	606.0	482.4	506.1	550.4	639.0	779.4	667.7	572.9	587.9	599.7
75°	602.8	456.2	421.9	448.1	479.9	562.9	691.4	612.8	521.1	519.2	532.3
77.5°	455.6	356.3	358.2	388.2	408.8	494.9	621.6	566.6	477.4	473.0	492.4
80°	333.2	270.2	288.3	319.5	338.2	444.3	576.0	515.5	418.1	400.6	416.9
82.5°	220.9	191.6	213.4	244.6	259.6	371.3	523.0	437.5	340.7	296.4	298.9
85°	104.2	100.5	127.3	142.3	161.6	230.3	391.3	302.7	217.2	179.7	187.8
87.5°	23.7	31.8	41.8	41.2	48.1	61.8	121.7	84.9	63.0	43.1	28.7
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)