

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: P367958

Luminaire Tested: **MSA-SA3C-730-U-T3**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-10)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3C-730-U-T3
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16556 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

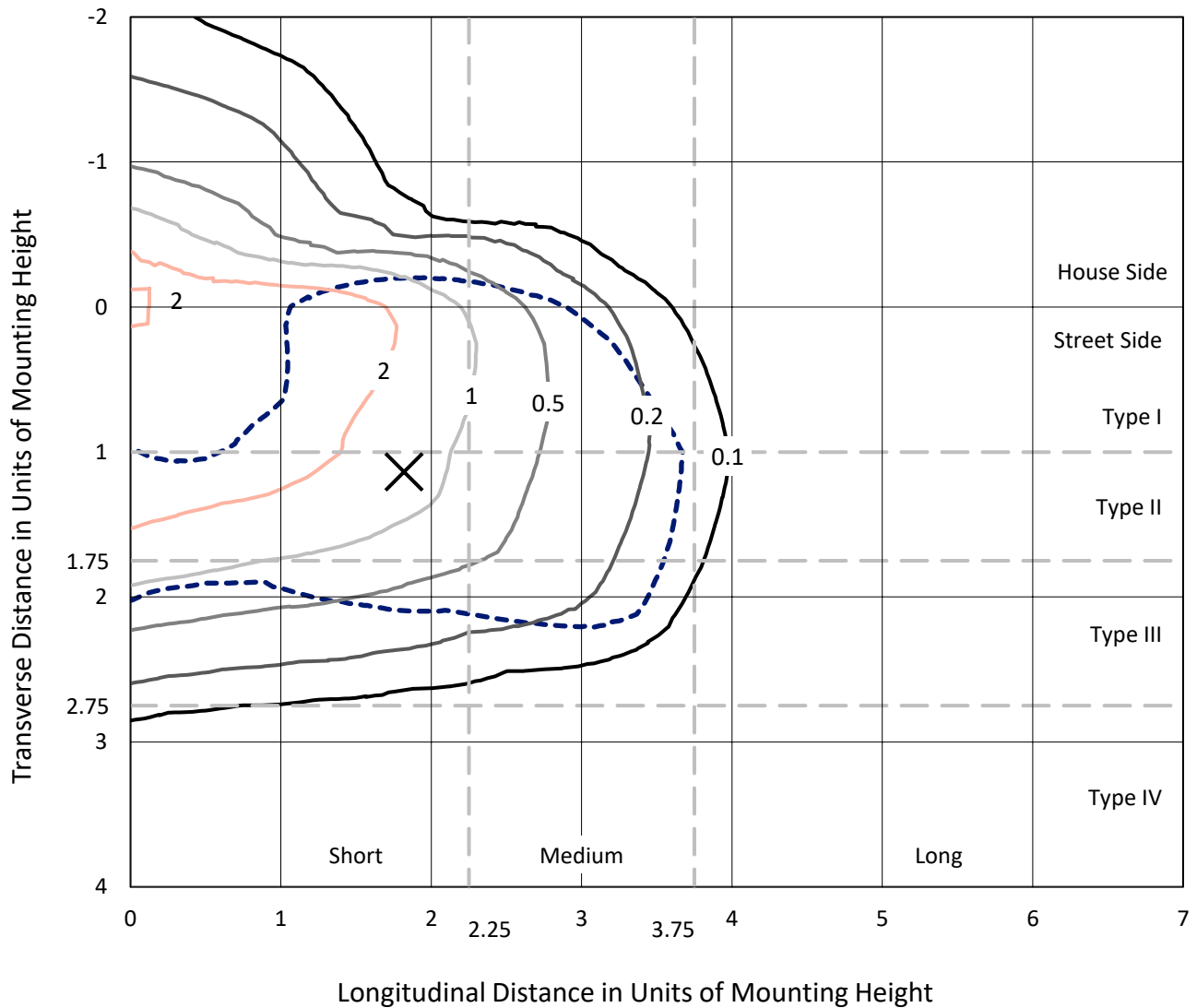
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

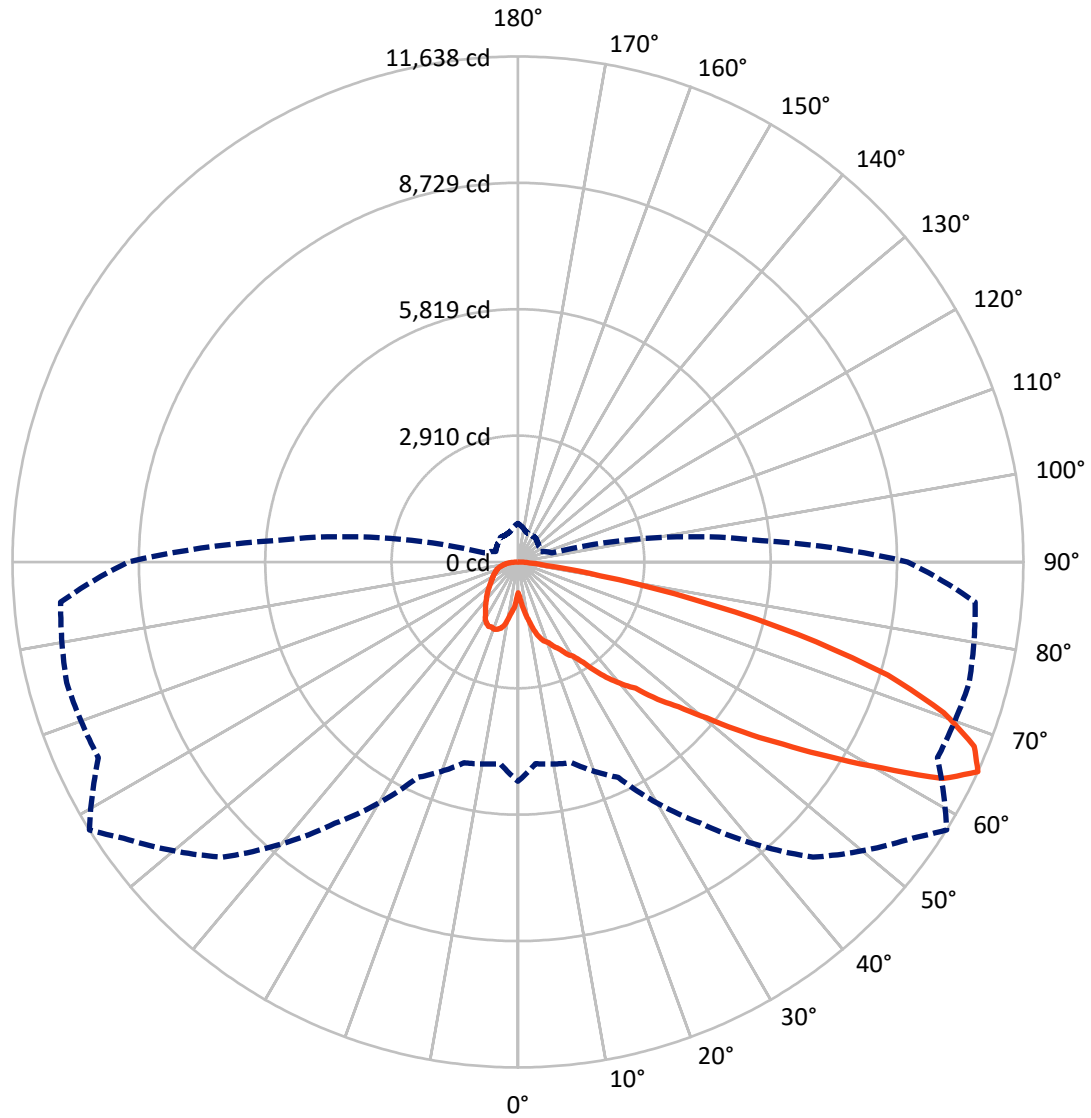
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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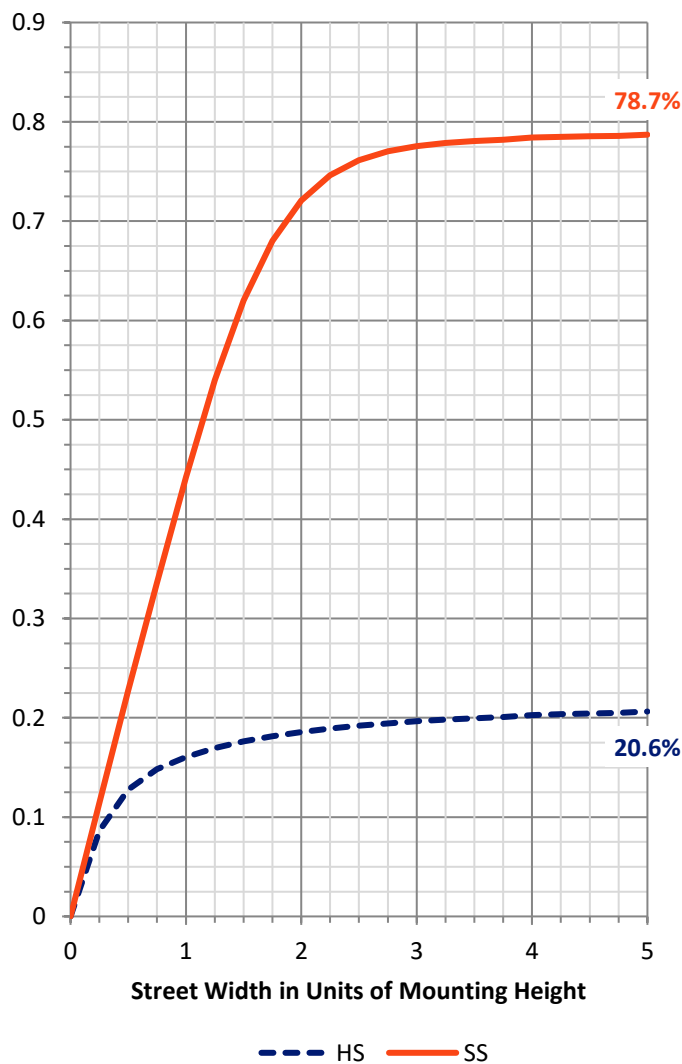
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3487.2	0.0	3487.2
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	13068.8	0.0	13068.8
	% Fixture	78.9	0.0	78.9
Total	Lumens	16556.0	0.0	16556.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	0.7
10°-20°	472.5	2.9
20°-30°	906.6	5.5
30°-40°	1496.8	9.0
40°-50°	2487.9	15.0
50°-60°	4108.7	24.8
60°-70°	4609.2	27.8
70°-80°	2095.7	12.7
80°-90°	270.3	1.6
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°	16556.0	100.0
0°-180°	16556.0	100.0



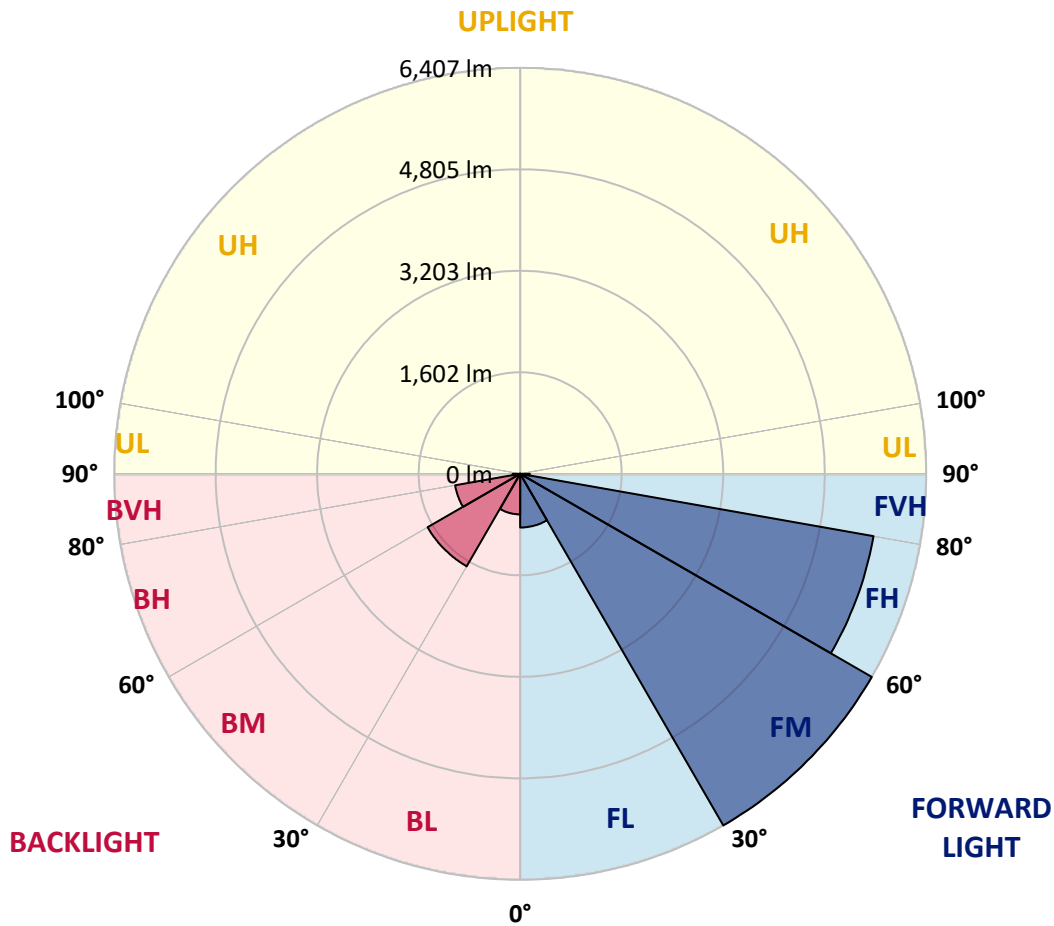
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.2	5.1			
FM (30°-60°)	6406.9	38.7			
FH (60°-80°)	5662.5	34.2			G3/7500
FVH (80°-90°)	152.2	0.9			G2/225
BL (0°-30°)	640.2	3.9	B2/1000		
BM (30°-60°)	1686.5	10.2	B2/2500		
BH (60°-80°)	1042.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	118.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8
2.5°	848.7	823.2	780.5	790.8	815.6	829.4	821.2	810.1	795.6	792.9	856.3
5°	1099.0	1050.1	1030.1	1021.8	991.5	973.5	1004.6	1000.4	1017.0	1047.3	1109.4
7.5°	1281.7	1247.2	1214.1	1210.7	1152.1	1131.4	1172.8	1194.8	1224.5	1225.2	1309.3
10°	1379.6	1350.0	1349.3	1318.3	1313.4	1352.7	1353.4	1370.0	1373.4	1408.6	1392.0
12.5°	1485.8	1483.7	1521.7	1521.0	1565.1	1629.9	1597.5	1597.5	1607.1	1564.4	1616.8
15°	1738.8	1760.9	1689.9	1701.6	1701.6	1765.0	1763.0	1775.4	1805.0	1794.0	1770.5
17.5°	2002.2	2016.0	1937.4	1864.3	1869.8	1856.0	1905.7	1910.5	1882.2	2010.5	1982.2
20°	2171.8	2225.6	2060.1	1968.4	1986.4	2002.2	2004.3	1974.6	1960.2	2157.3	2118.7
22.5°	2381.4	2335.9	2184.2	2082.9	2109.8	2088.4	2084.3	2107.0	2127.0	2201.5	2264.2
25°	2521.4	2517.9	2335.9	2224.9	2195.3	2189.1	2231.1	2222.1	2269.7	2404.9	2365.6
27.5°	2724.8	2788.2	2465.5	2493.1	2362.8	2225.6	2360.7	2401.4	2486.9	2464.8	2552.4
30°	3119.1	3071.6	2734.4	2726.8	2579.3	2464.2	2557.9	2523.4	2677.2	2672.4	2737.2
32.5°	3441.1	3474.2	3050.2	2970.9	2861.3	2722.7	2660.6	2756.5	2839.2	2975.0	3011.6
35°	3781.7	3774.1	3373.6	3213.6	3032.3	2975.0	3051.6	3091.6	3267.4	3392.2	3305.3
37.5°	4311.2	4251.2	3792.8	3490.1	3354.3	3333.6	3464.6	3406.7	3596.9	3626.6	3675.5
40°	4803.5	4622.9	4176.1	3829.3	3613.5	3690.7	3694.8	3702.4	3804.5	3885.1	4127.1
42.5°	5271.7	5144.8	4565.6	4305.0	3987.2	3912.0	3958.9	3974.8	4232.6	4397.4	4732.5
45°	5911.5	5571.6	5125.5	4858.0	4502.2	4406.4	4373.3	4509.8	4758.7	5133.8	5421.3
47.5°	6452.7	6145.9	5720.5	5368.2	4970.4	5244.1	5056.5	4980.0	5314.4	5779.1	6236.9
50°	6901.6	6563.7	6146.6	5943.2	5879.8	6123.8	5637.1	5646.0	5952.2	6607.8	7132.5
52.5°	7249.0	6888.5	6518.9	6415.5	6769.9	6910.5	6558.9	6505.8	6729.2	7504.1	8134.3
55°	7573.8	7191.1	6905.7	7116.7	7713.7	7729.6	7704.8	7410.4	7679.3	8464.6	9171.3
57.5°	7657.2	7244.9	7055.3	7358.0	8165.3	8793.4	9040.3	8462.5	8736.2	9338.1	10059.3
60°	7227.7	6874.7	6798.8	7209.7	8409.4	9327.8	9972.4	9627.0	9524.3	10039.3	10681.2
62.5°	6347.9	5938.4	5999.7	6570.6	8152.2	9539.4	10708.8	10978.4	10356.5	10597.1	10952.9
65°	5052.4	4661.5	4785.6	5472.3	7344.9	9609.8	11085.2	11638.2	10657.1	10755.0	10568.1
67.5°	3563.2	3208.1	3364.6	4252.6	6110.0	8709.3	11150.0	11330.7	10337.2	10304.8	9517.4
70°	2018.8	1796.1	1965.7	2706.2	4312.6	6938.1	10641.9	10404.0	9763.5	9304.3	7963.3
72.5°	926.0	849.4	930.8	1377.6	2482.8	4616.7	8688.0	8903.8	8412.9	7838.5	6058.3
75°	492.3	465.4	499.9	688.1	1161.7	2511.7	6172.8	6658.2	6396.9	5945.3	3952.0
77.5°	366.1	345.4	362.0	446.1	620.5	982.5	3507.3	4119.6	4218.8	3803.1	2194.6
80°	280.6	264.1	280.6	337.1	429.5	466.8	1499.6	1920.2	2187.0	1767.1	872.2
82.5°	208.2	197.2	222.7	253.0	302.0	291.6	532.3	662.6	854.2	584.0	339.9
85°	165.5	151.7	161.3	171.7	193.1	160.0	243.4	272.3	288.2	241.3	125.5
87.5°	64.8	60.0	117.2	92.4	78.6	48.3	73.1	82.7	84.8	81.4	36.5
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°	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8
2.5°	863.2	856.3	815.6	828.7	850.1	854.2	863.2	838.4	826.0	871.5	873.6
5°	1114.9	1077.6	1058.3	1060.4	1046.6	1025.2	1057.6	1079.0	1087.3	1121.1	1133.5
7.5°	1310.0	1265.2	1232.8	1195.5	1143.1	1109.4	1165.9	1207.3	1229.3	1299.6	1327.2
10°	1396.9	1361.0	1354.1	1307.2	1305.8	1305.2	1302.4	1287.9	1335.5	1328.6	1347.9
12.5°	1576.1	1568.5	1503.0	1484.4	1486.5	1484.4	1426.5	1423.7	1424.4	1487.9	1465.1
15°	1743.0	1744.3	1684.4	1616.8	1556.1	1537.5	1514.8	1504.4	1519.6	1555.4	1533.4
17.5°	1949.1	1956.0	1784.3	1677.5	1597.5	1595.4	1541.0	1476.8	1569.2	1591.3	1567.2
20°	2082.2	2053.2	1842.3	1663.0	1640.2	1578.2	1510.6	1422.4	1502.3	1556.1	1571.3
22.5°	2208.4	2158.0	1896.0	1688.5	1579.6	1505.8	1440.3	1383.1	1408.6	1468.6	1458.9
25°	2293.9	2280.1	1970.5	1749.9	1577.5	1413.4	1325.2	1288.6	1301.7	1394.8	1385.8
27.5°	2497.9	2349.0	1957.4	1765.7	1511.3	1287.2	1243.1	1203.8	1190.7	1291.4	1318.9
30°	2634.4	2573.1	2045.0	1740.9	1427.9	1183.8	1119.0	1110.7	1114.9	1229.3	1236.9
32.5°	2866.1	2706.8	2188.4	1645.8	1306.5	1107.3	1032.8	1036.3	1054.9	1138.3	1155.5
35°	3107.4	3012.3	2207.7	1577.5	1207.9	1025.9	995.6	971.5	981.8	1054.9	1058.3
37.5°	3555.6	3226.7	2326.3	1472.0	1135.6	994.9	937.0	915.6	921.1	962.5	992.1
40°	3949.9	3657.6	2271.1	1370.0	1045.9	953.5	881.1	865.3	848.7	889.4	908.0
42.5°	4582.2	3965.1	2252.5	1257.6	1003.9	897.7	848.0	806.0	790.1	824.6	858.4
45°	5214.4	4291.2	2151.1	1143.8	944.6	893.5	799.8	759.8	763.9	795.0	829.4
47.5°	5919.1	4729.0	1979.5	1033.5	879.8	873.6	751.5	734.3	746.7	781.2	815.6
50°	6751.9	5193.7	1837.4	934.2	833.6	813.6	745.3	724.6	736.3	777.0	810.8
52.5°	7662.7	5703.3	1734.0	842.5	781.2	766.0	753.6	733.6	747.4	782.5	817.7
55°	8568.0	6168.6	1663.7	779.8	736.3	746.0	770.8	756.3	763.2	789.4	824.6
57.5°	9239.5	6414.1	1522.3	712.9	699.8	734.3	772.9	748.8	752.9	789.4	827.4
60°	9629.8	6461.0	1290.0	658.4	670.9	710.8	751.5	720.5	717.7	777.7	825.3
62.5°	9587.0	6188.6	1023.2	608.8	637.8	675.7	719.1	689.5	697.0	779.1	829.4
65°	8974.8	5632.2	813.6	566.7	597.8	637.1	692.2	680.5	717.0	834.3	888.7
67.5°	7899.2	4819.4	653.6	527.4	560.5	610.9	710.8	741.9	757.7	890.8	946.6
70°	6401.7	3744.5	544.7	493.0	530.9	623.3	764.6	758.4	745.3	863.9	908.0
72.5°	4624.9	2566.9	479.2	459.2	494.3	586.0	766.0	732.9	716.4	788.7	820.5
75°	2893.7	1531.3	418.5	416.4	438.5	525.4	731.5	701.9	657.1	692.9	734.3
77.5°	1652.6	783.9	352.3	370.9	384.0	455.7	655.0	628.1	588.1	603.3	644.0
80°	630.9	379.2	297.2	329.6	326.1	386.1	555.0	548.8	503.3	508.1	533.0
82.5°	297.2	212.4	246.8	283.4	264.8	307.5	450.9	448.8	408.9	370.2	390.2
85°	110.3	113.1	180.6	215.8	184.1	198.6	326.1	317.2	278.5	235.1	259.9
87.5°	24.8	40.7	88.9	112.4	64.1	61.4	131.7	114.5	110.3	65.5	68.9
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)