

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: P367826

Luminaire Tested: **MSA-SA3B-730-U-T3**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367826
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-SA3B-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: 13368 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

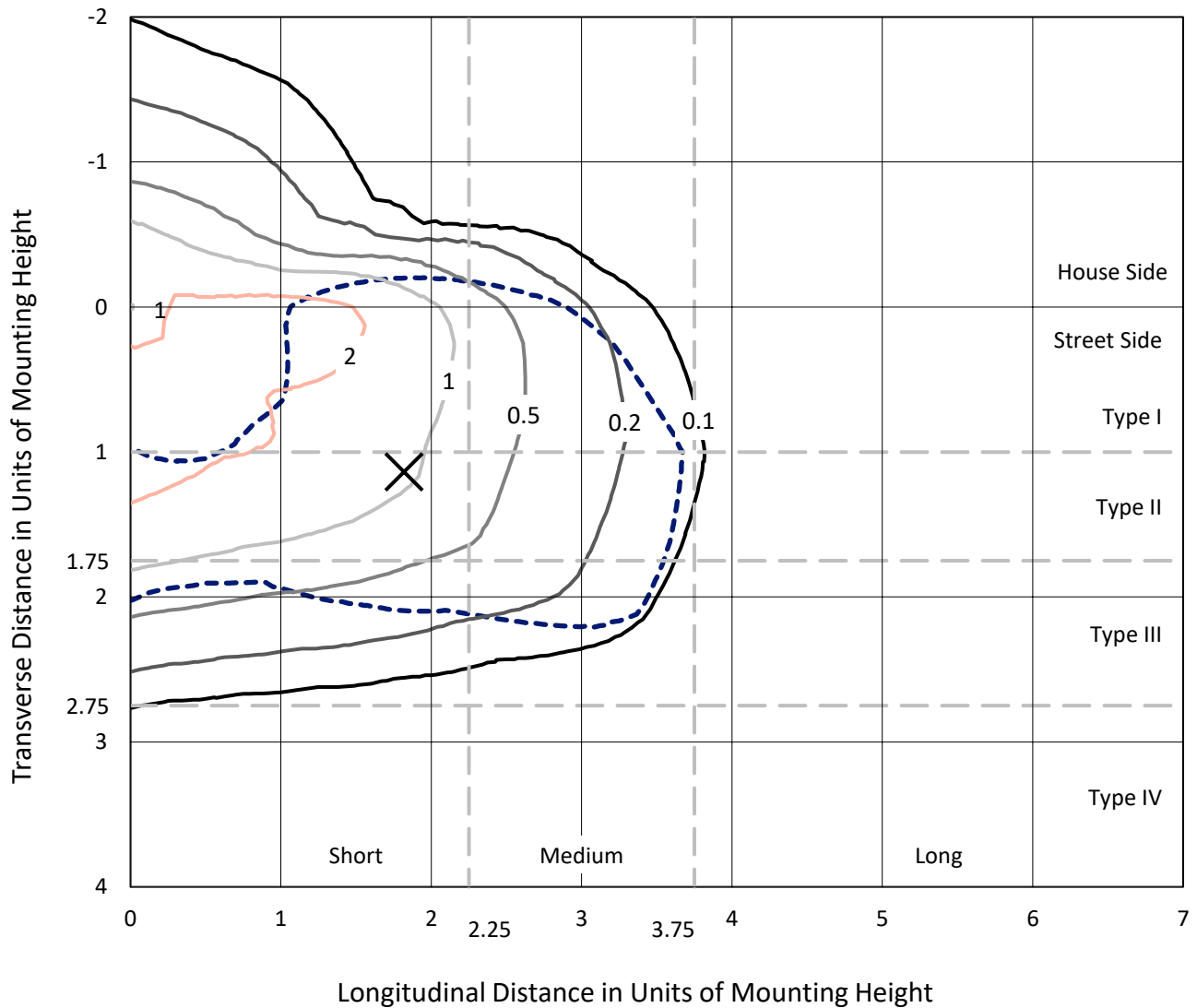
Input Watts (W): 126
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

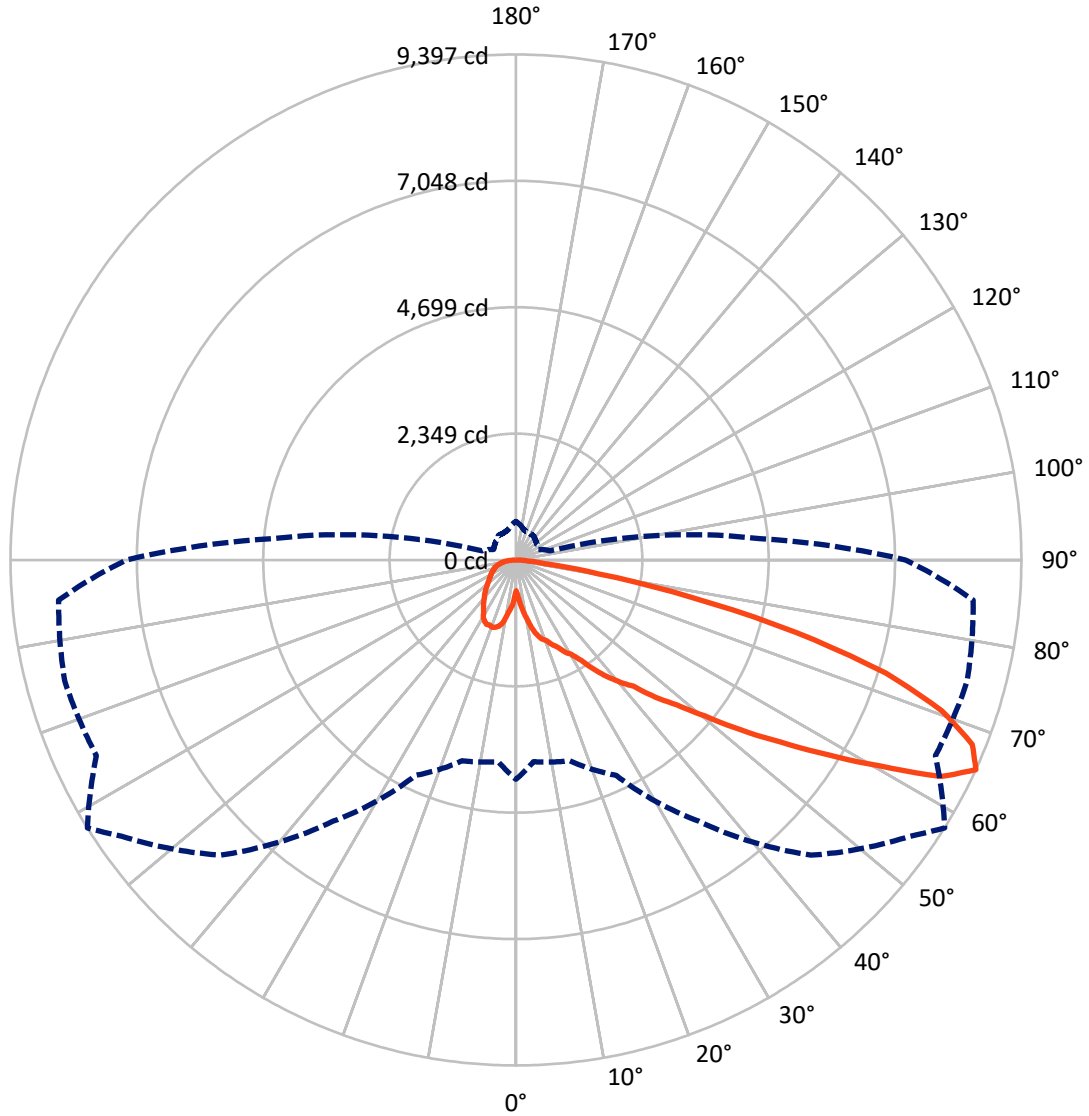
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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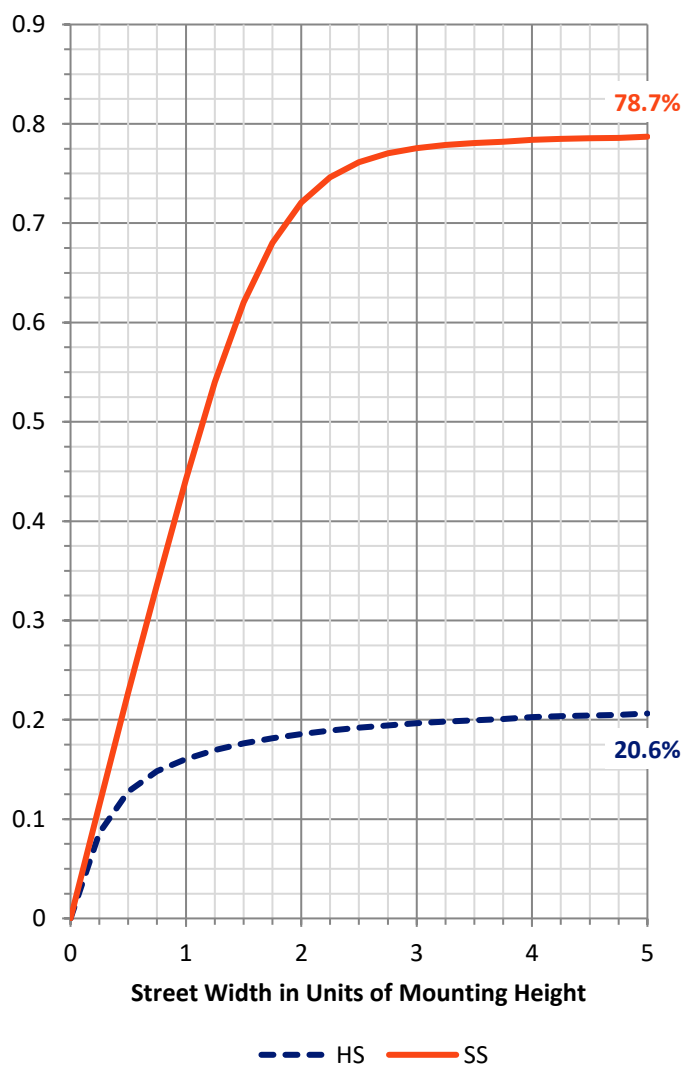
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2815.7	0.0	2815.7
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	10552.3	0.0	10552.3
	% Fixture	78.9	0.0	78.9
Total	Lumens	13368.0	0.0	13368.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	0.7
10°-20°	381.5	2.9
20°-30°	732.1	5.5
30°-40°	1208.6	9.0
40°-50°	2008.8	15.0
50°-60°	3317.5	24.8
60°-70°	3721.7	27.8
70°-80°	1692.2	12.7
80°-90°	218.2	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°	13368.0	100.0
0°-180°	13368.0	100.0

Coefficient of Utilization

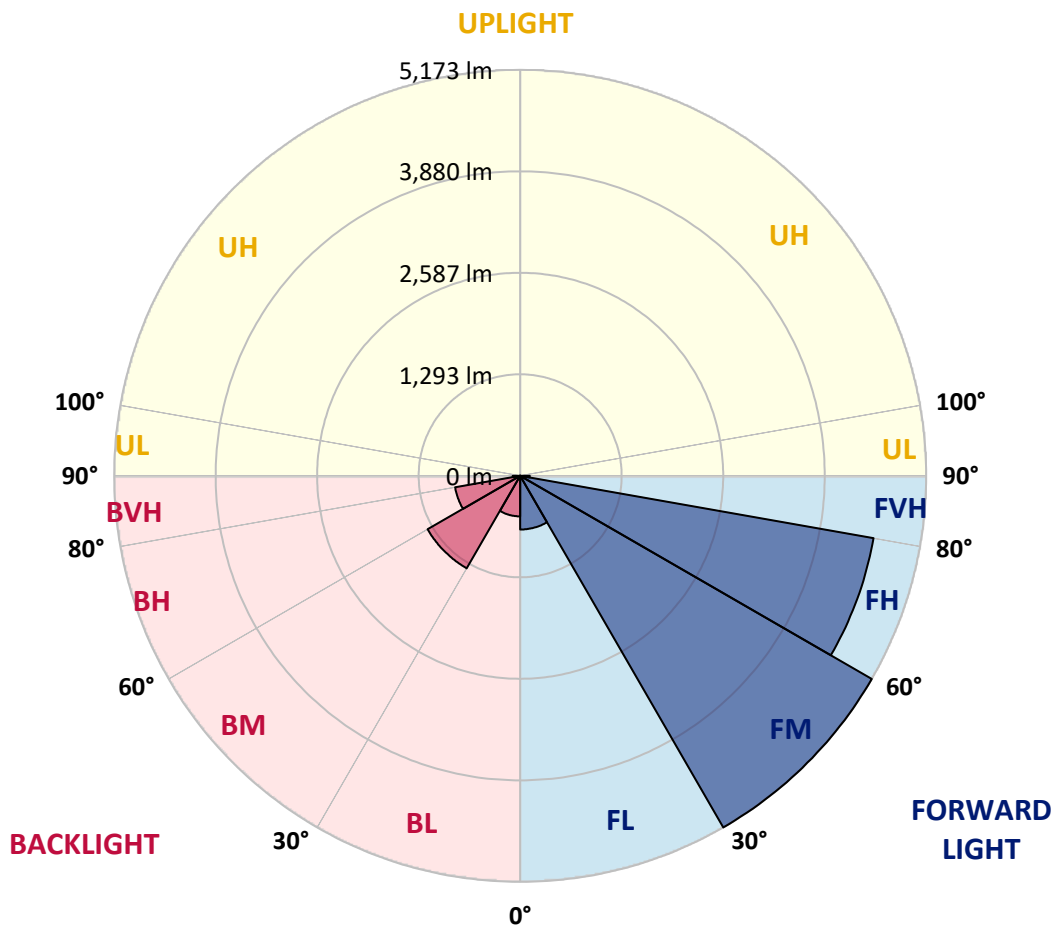


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.1	5.1			
FM (30°-60°)	5173.2	38.7			
FH (60°-80°)	4572.1	34.2			G2/5000
FVH (80°-90°)	122.9	0.9			G2/225
BL (0°-30°)	516.9	3.9	B2/1000		
BM (30°-60°)	1361.7	10.2	B2/2500		
BH (60°-80°)	841.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	95.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
2.5°	685.3	664.7	630.2	638.5	658.6	669.7	663.0	654.1	642.4	640.2	691.4
5°	887.4	847.9	831.7	825.0	800.5	786.1	811.1	807.8	821.1	845.6	895.7
7.5°	1034.9	1007.1	980.4	977.6	930.3	913.5	947.0	964.8	988.7	989.3	1057.2
10°	1114.0	1090.0	1089.5	1064.4	1060.5	1092.3	1092.8	1106.2	1109.0	1137.3	1124.0
12.5°	1199.7	1198.0	1228.6	1228.1	1263.7	1316.0	1289.9	1289.9	1297.7	1263.2	1305.5
15°	1404.0	1421.8	1364.5	1373.9	1373.9	1425.2	1423.5	1433.5	1457.4	1448.5	1429.6
17.5°	1616.7	1627.8	1564.3	1505.3	1509.8	1498.6	1538.7	1542.6	1519.8	1623.3	1600.5
20°	1753.6	1797.0	1663.4	1589.4	1603.9	1616.7	1618.3	1594.4	1582.7	1741.9	1710.7
22.5°	1922.9	1886.1	1763.6	1681.8	1703.5	1686.3	1682.9	1701.3	1717.4	1777.6	1828.2
25°	2035.9	2033.1	1886.1	1796.5	1772.5	1767.5	1801.5	1794.3	1832.7	1941.8	1910.0
27.5°	2200.1	2251.3	1990.8	2013.0	1907.8	1797.0	1906.2	1939.0	2008.0	1990.2	2060.9
30°	2518.5	2480.1	2207.9	2201.8	2082.6	1989.7	2065.4	2037.5	2161.7	2157.8	2210.1
32.5°	2778.5	2805.2	2462.9	2398.8	2310.3	2198.4	2148.3	2225.7	2292.5	2402.2	2431.7
35°	3053.5	3047.4	2723.9	2594.8	2448.4	2402.2	2464.0	2496.3	2638.2	2739.0	2668.8
37.5°	3481.1	3432.6	3062.4	2818.0	2708.4	2691.7	2797.4	2750.7	2904.3	2928.3	2967.8
40°	3878.6	3732.7	3372.0	3091.9	2917.7	2980.0	2983.4	2989.5	3071.9	3137.0	3332.4
42.5°	4256.6	4154.1	3686.5	3476.1	3219.4	3158.7	3196.6	3209.4	3417.6	3550.7	3821.2
45°	4773.2	4498.7	4138.5	3922.5	3635.3	3557.9	3531.2	3641.4	3842.4	4145.2	4377.4
47.5°	5210.2	4962.5	4619.0	4334.5	4013.3	4234.3	4082.9	4021.1	4291.1	4666.3	5035.9
50°	5572.6	5299.8	4963.0	4798.8	4747.6	4944.6	4551.6	4558.8	4806.0	5335.4	5759.1
52.5°	5853.2	5562.0	5263.6	5180.1	5466.3	5579.8	5295.9	5253.1	5433.4	6059.2	6568.0
55°	6115.4	5806.4	5575.9	5746.3	6228.4	6241.2	6221.2	5983.4	6200.6	6834.6	7405.3
57.5°	6182.7	5849.8	5696.7	5941.1	6593.0	7100.2	7299.5	6833.0	7054.0	7540.0	8122.3
60°	5835.9	5550.9	5489.6	5821.4	6790.1	7531.6	8052.2	7773.2	7690.3	8106.2	8624.4
62.5°	5125.6	4794.9	4844.4	5305.4	6582.5	7702.5	8646.7	8864.4	8362.2	8556.5	8843.8
65°	4079.5	3763.9	3864.1	4418.6	5930.6	7759.3	8950.7	9397.1	8605.0	8684.0	8533.1
67.5°	2877.0	2590.3	2716.7	3433.7	4933.5	7032.3	9003.0	9148.9	8346.7	8320.5	7684.7
70°	1630.0	1450.2	1587.2	2185.1	3482.2	5602.1	8592.7	8400.7	7883.5	7512.7	6429.9
72.5°	747.7	685.9	751.5	1112.3	2004.7	3727.7	7015.0	7189.3	6792.9	6329.2	4891.8
75°	397.5	375.8	403.6	555.6	938.0	2028.1	4984.2	5376.1	5165.1	4800.5	3191.0
77.5°	295.6	278.9	292.3	360.2	501.0	793.3	2831.9	3326.3	3406.5	3070.8	1772.0
80°	226.6	213.2	226.6	272.2	346.8	376.9	1210.8	1550.4	1765.9	1426.8	704.2
82.5°	168.1	159.2	179.8	204.3	243.8	235.5	429.8	535.0	689.8	471.5	274.5
85°	133.6	122.5	130.3	138.6	155.9	129.2	196.5	219.9	232.7	194.8	101.3
87.5°	52.3	48.4	94.6	74.6	63.5	39.0	59.0	66.8	68.5	65.7	29.5
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°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0
2.5°	697.0	691.4	658.6	669.2	686.4	689.8	697.0	677.0	666.9	703.7	705.3
5°	900.2	870.1	854.5	856.2	845.1	827.8	854.0	871.2	877.9	905.2	915.2
7.5°	1057.7	1021.6	995.4	965.3	923.0	895.7	941.4	974.8	992.6	1049.4	1071.7
10°	1127.9	1098.9	1093.4	1055.5	1054.4	1053.8	1051.6	1039.9	1078.3	1072.8	1088.4
12.5°	1272.6	1266.5	1213.6	1198.6	1200.3	1198.6	1151.8	1149.6	1150.1	1201.4	1183.0
15°	1407.3	1408.5	1360.0	1305.5	1256.5	1241.4	1223.1	1214.7	1227.0	1255.9	1238.1
17.5°	1573.8	1579.4	1440.7	1354.5	1289.9	1288.2	1244.2	1192.5	1267.1	1284.9	1265.4
20°	1681.2	1657.9	1487.5	1342.8	1324.4	1274.3	1219.7	1148.5	1213.1	1256.5	1268.7
22.5°	1783.1	1742.5	1530.9	1363.4	1275.4	1215.8	1163.0	1116.7	1137.3	1185.8	1178.0
25°	1852.2	1841.0	1591.1	1412.9	1273.7	1141.2	1070.0	1040.5	1051.1	1126.2	1119.0
27.5°	2016.9	1896.7	1580.5	1425.7	1220.3	1039.4	1003.7	972.0	961.4	1042.7	1065.0
30°	2127.2	2077.6	1651.2	1405.7	1152.9	955.9	903.5	896.8	900.2	992.6	998.7
32.5°	2314.2	2185.6	1767.0	1328.9	1055.0	894.1	833.9	836.7	851.8	919.1	933.0
35°	2509.1	2432.2	1782.6	1273.7	975.3	828.4	803.9	784.4	792.7	851.8	854.5
37.5°	2870.9	2605.4	1878.3	1188.6	916.9	803.3	756.6	739.3	743.8	777.2	801.1
40°	3189.4	2953.3	1833.8	1106.2	844.5	769.9	711.5	698.7	685.3	718.1	733.2
42.5°	3699.8	3201.6	1818.7	1015.4	810.6	724.8	684.7	650.8	638.0	665.8	693.1
45°	4210.3	3464.9	1736.9	923.6	762.7	721.5	645.8	613.5	616.8	641.9	669.7
47.5°	4779.3	3818.4	1598.3	834.5	710.4	705.3	606.8	592.9	602.9	630.7	658.6
50°	5451.8	4193.6	1483.6	754.3	673.1	656.9	601.8	585.1	594.6	627.4	654.7
52.5°	6187.2	4605.0	1400.1	680.3	630.7	618.5	608.5	592.3	603.5	631.9	660.2
55°	6918.2	4980.8	1343.3	629.6	594.6	602.4	622.4	610.7	616.3	637.4	665.8
57.5°	7460.4	5179.0	1229.2	575.6	565.1	592.9	624.1	604.6	607.9	637.4	668.0
60°	7775.5	5216.9	1041.6	531.7	541.7	574.0	606.8	581.8	579.5	628.0	666.4
62.5°	7741.0	4997.0	826.1	491.6	515.0	545.6	580.6	556.7	562.8	629.1	669.7
65°	7246.6	4547.7	656.9	457.6	482.7	514.4	558.9	549.5	579.0	673.6	717.6
67.5°	6378.1	3891.4	527.8	425.9	452.6	493.2	574.0	599.0	611.8	719.3	764.4
70°	5169.0	3023.5	439.8	398.0	428.7	503.3	617.4	612.4	601.8	697.5	733.2
72.5°	3734.4	2072.6	386.9	370.8	399.2	473.2	618.5	591.8	578.4	636.9	662.5
75°	2336.5	1236.4	337.9	336.2	354.1	424.2	590.7	566.7	530.5	559.5	592.9
77.5°	1334.4	633.0	284.5	299.5	310.1	368.0	528.9	507.2	474.9	487.1	520.0
80°	509.4	306.2	239.9	266.1	263.3	311.8	448.1	443.1	406.4	410.3	430.3
82.5°	239.9	171.5	199.3	228.8	213.8	248.3	364.1	362.4	330.1	298.9	315.1
85°	89.1	91.3	145.9	174.2	148.6	160.3	263.3	256.1	224.9	189.8	209.9
87.5°	20.0	32.8	71.8	90.7	51.8	49.5	106.3	92.4	89.1	52.9	55.7
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)