

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: P597064

Luminaire Tested: **MSA-SA3C-835-U-T3**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-10)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3C-835-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: 14987 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

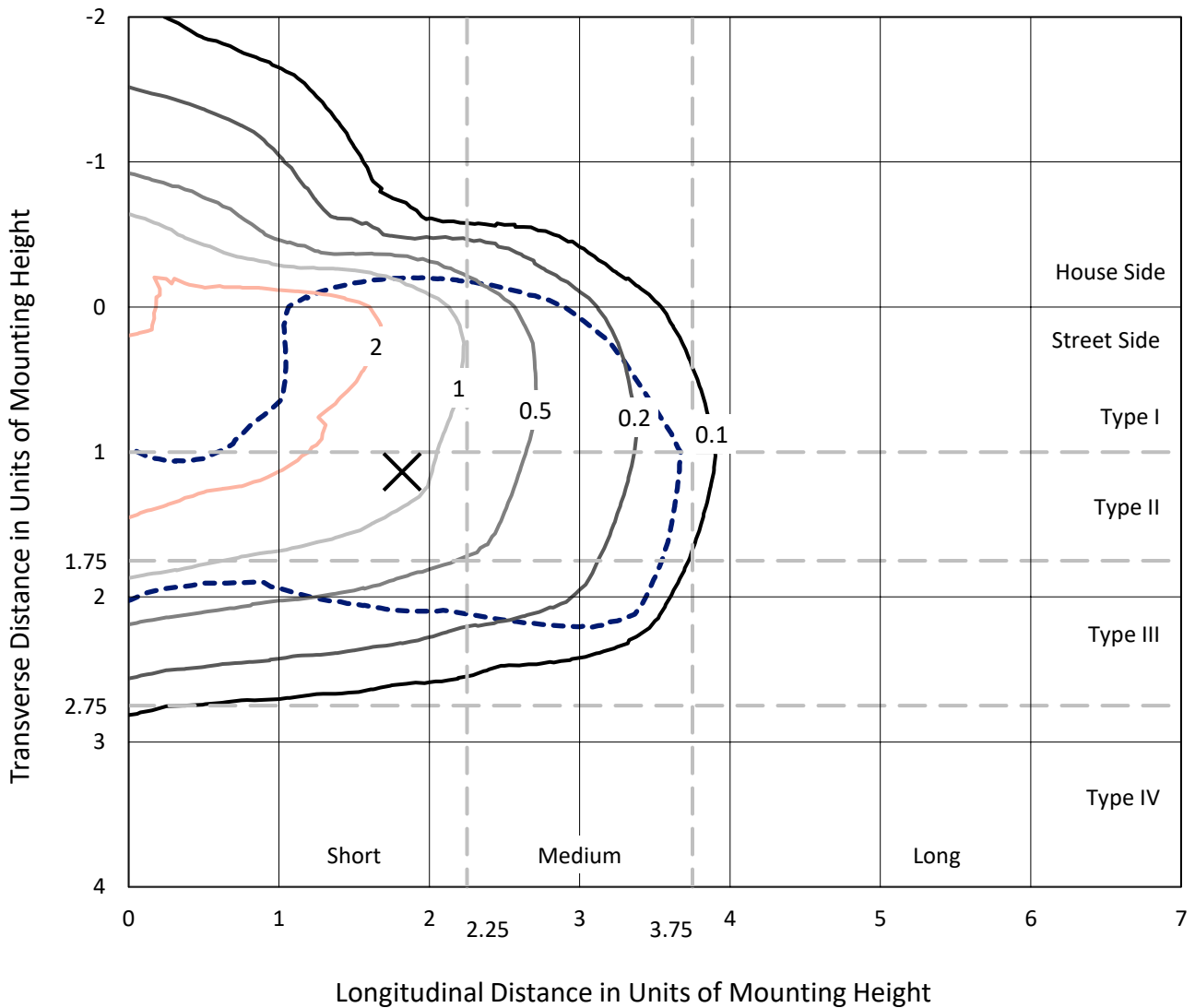
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

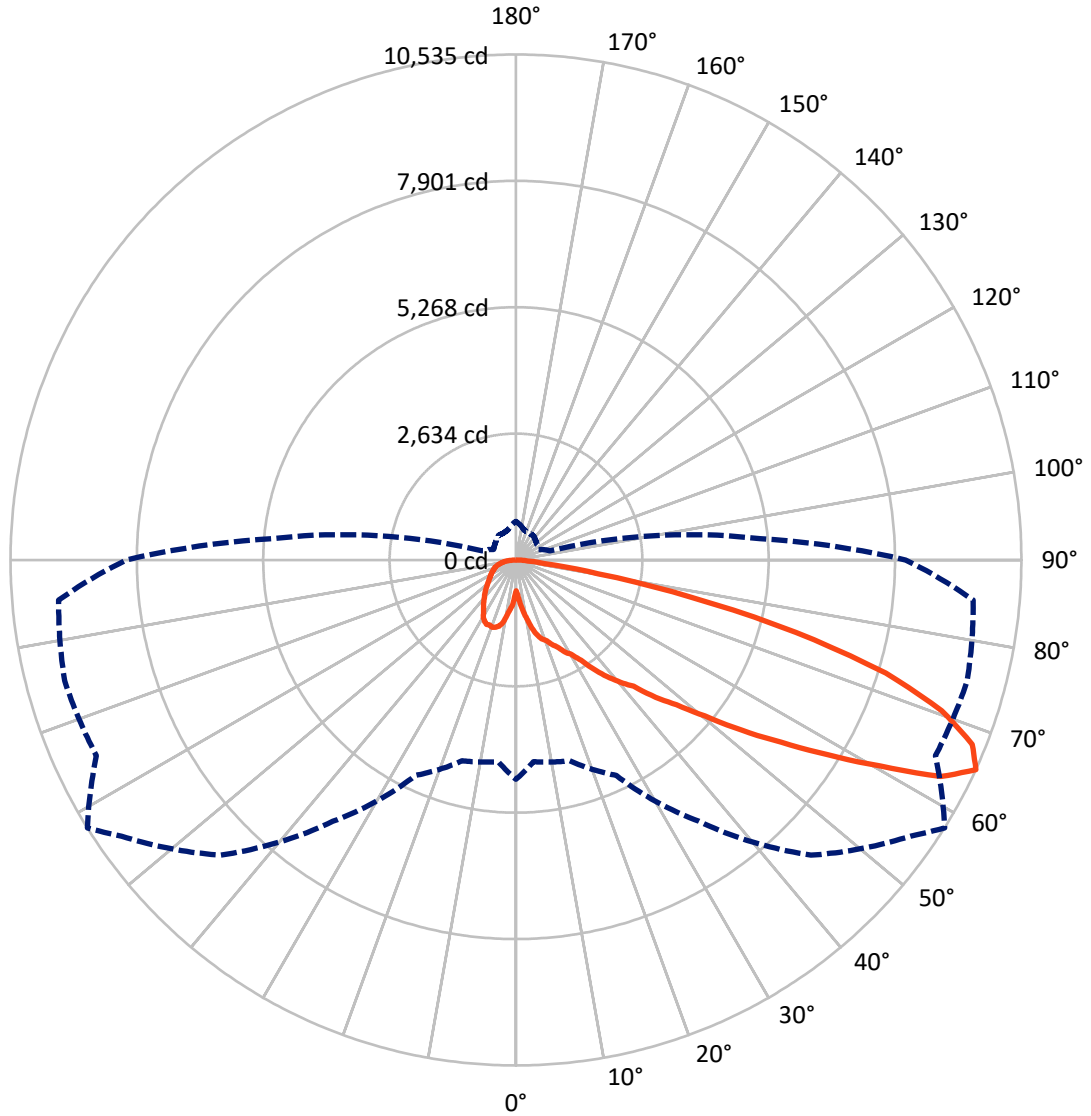
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type 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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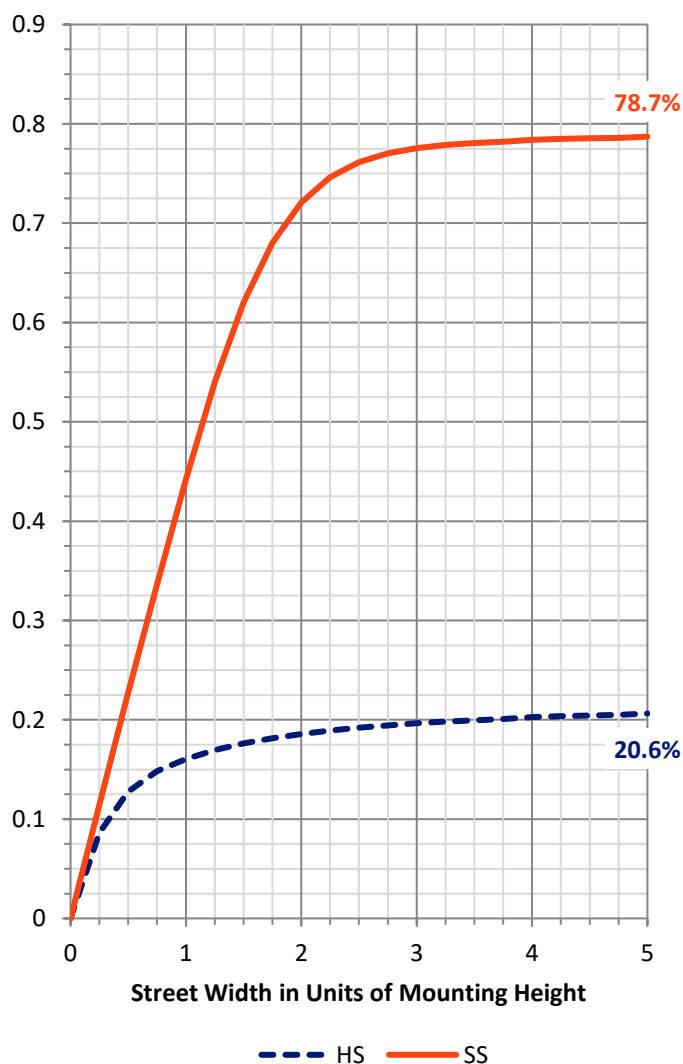
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3156.7	0.0	3156.7
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	11830.3	0.0	11830.3
	% Fixture	78.9	0.0	78.9
Total	Lumens	14987.0	0.0	14987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	0.7
10°-20°	427.7	2.9
20°-30°	820.7	5.5
30°-40°	1354.9	9.0
40°-50°	2252.1	15.0
50°-60°	3719.3	24.8
60°-70°	4172.4	27.8
70°-80°	1897.1	12.7
80°-90°	244.7	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°	14987.0	100.0
0°-180°	14987.0	100.0

Coefficient of Utilization



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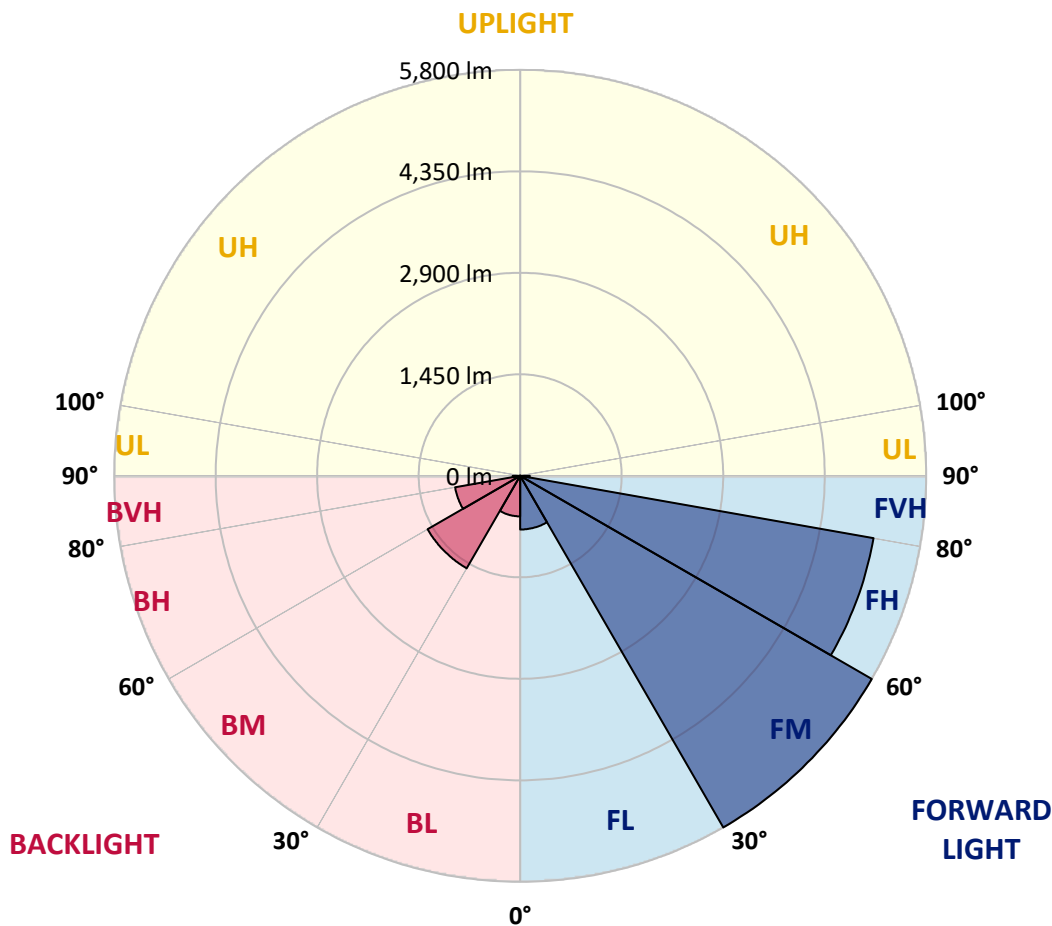
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.9	5.1			
FM (30°-60°)	5799.7	38.7			
FH (60°-80°)	5125.9	34.2			G3/7500
FVH (80°-90°)	137.8	0.9			G2/225
BL (0°-30°)	579.5	3.9	B2/1000		
BM (30°-60°)	1526.7	10.2	B2/2500		
BH (60°-80°)	943.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	106.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5
2.5°	768.3	745.2	706.5	715.9	738.3	750.8	743.3	733.3	720.2	717.7	775.2
5°	994.9	950.5	932.4	925.0	897.5	881.3	909.4	905.6	920.6	948.0	1004.2
7.5°	1160.2	1129.0	1099.1	1096.0	1042.9	1024.2	1061.6	1081.6	1108.4	1109.1	1185.2
10°	1248.9	1222.0	1221.4	1193.3	1189.0	1224.5	1225.2	1240.1	1243.3	1275.1	1260.1
12.5°	1345.0	1343.1	1377.4	1376.8	1416.8	1475.4	1446.1	1446.1	1454.8	1416.1	1463.6
15°	1574.0	1594.0	1529.7	1540.3	1540.3	1597.8	1595.9	1607.1	1634.0	1624.0	1602.8
17.5°	1812.5	1824.9	1753.8	1687.6	1692.6	1680.1	1725.1	1729.5	1703.9	1820.0	1794.4
20°	1966.0	2014.7	1864.9	1781.9	1798.1	1812.5	1814.3	1787.5	1774.4	1952.9	1917.9
22.5°	2155.7	2114.5	1977.2	1885.5	1909.8	1890.5	1886.7	1907.3	1925.4	1992.8	2049.6
25°	2282.4	2279.3	2114.5	2014.1	1987.2	1981.6	2019.7	2011.6	2054.6	2176.9	2141.4
27.5°	2466.5	2524.0	2231.9	2256.8	2138.9	2014.7	2137.0	2173.8	2251.2	2231.2	2310.5
30°	2823.5	2780.5	2475.3	2468.4	2334.9	2230.6	2315.5	2284.3	2423.5	2419.1	2477.8
32.5°	3115.0	3145.0	2761.1	2689.4	2590.1	2464.7	2408.5	2495.3	2570.1	2693.1	2726.2
35°	3423.3	3416.5	3053.8	2909.0	2744.9	2693.1	2762.4	2798.6	2957.7	3070.7	2992.1
37.5°	3902.7	3848.4	3433.3	3159.3	3036.4	3017.6	3136.2	3083.8	3256.1	3282.9	3327.2
40°	4348.3	4184.8	3780.3	3466.4	3271.0	3340.9	3344.7	3351.6	3443.9	3516.9	3736.0
42.5°	4772.1	4657.2	4133.0	3897.0	3609.3	3541.3	3583.7	3598.1	3831.5	3980.7	4284.0
45°	5351.3	5043.6	4639.7	4397.6	4075.5	3988.8	3958.8	4082.4	4307.7	4647.2	4907.5
47.5°	5841.2	5563.5	5178.4	4859.4	4499.3	4747.1	4577.3	4508.1	4810.8	5231.4	5645.8
50°	6247.5	5941.7	5564.1	5380.0	5322.5	5543.5	5102.9	5111.0	5388.1	5981.6	6456.6
52.5°	6562.1	6235.6	5901.1	5807.5	6128.3	6255.6	5937.3	5889.2	6091.5	6793.0	7363.4
55°	6856.0	6509.6	6251.2	6442.2	6982.7	6997.1	6974.6	6708.1	6951.5	7662.4	8302.1
57.5°	6931.5	6558.3	6386.7	6660.7	7391.5	7960.1	8183.5	7660.5	7908.3	8453.2	9106.0
60°	6542.7	6223.2	6154.5	6526.5	7612.5	8443.8	9027.4	8714.7	8621.7	9087.9	9669.0
62.5°	5746.3	5375.6	5431.1	5947.9	7379.7	8635.4	9693.9	9938.0	9375.0	9592.8	9914.9
65°	4573.6	4219.7	4332.1	4953.7	6648.8	8699.1	10034.7	10535.2	9647.1	9735.7	9566.6
67.5°	3225.5	2904.1	3045.7	3849.6	5531.0	7884.0	10093.4	10256.9	9357.5	9328.2	8615.4
70°	1827.4	1625.8	1779.4	2449.7	3903.9	6280.6	9633.4	9418.1	8838.2	8422.6	7208.7
72.5°	838.2	768.9	842.6	1247.0	2247.5	4179.1	7864.6	8060.0	7615.6	7095.7	5484.2
75°	445.6	421.3	452.5	622.9	1051.7	2273.7	5587.8	6027.2	5790.6	5381.8	3577.5
77.5°	331.4	312.7	327.7	403.8	561.7	889.4	3174.9	3729.2	3819.0	3442.7	1986.6
80°	254.0	239.0	254.0	305.2	388.8	422.5	1357.5	1738.2	1979.7	1599.6	789.5
82.5°	188.5	178.5	201.6	229.1	273.4	264.0	481.8	599.8	773.3	528.6	307.7
85°	149.8	137.3	146.0	155.4	174.8	144.8	220.3	246.5	260.9	218.4	113.6
87.5°	58.7	54.3	106.1	83.6	71.2	43.7	66.2	74.9	76.8	73.6	33.1
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°	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5
2.5°	781.4	775.2	738.3	750.2	769.5	773.3	781.4	758.9	747.7	788.9	790.8
5°	1009.2	975.5	958.0	959.9	947.4	928.1	957.4	976.8	984.2	1014.8	1026.1
7.5°	1185.8	1145.3	1115.9	1082.2	1034.8	1004.2	1055.4	1092.8	1112.8	1176.5	1201.4
10°	1264.5	1232.0	1225.8	1183.3	1182.1	1181.5	1179.0	1165.9	1208.9	1202.7	1220.2
12.5°	1426.8	1419.9	1360.6	1343.7	1345.6	1343.7	1291.3	1288.8	1289.4	1346.9	1326.3
15°	1577.8	1579.0	1524.7	1463.6	1408.7	1391.8	1371.2	1361.8	1375.6	1408.0	1388.1
17.5°	1764.4	1770.6	1615.2	1518.5	1446.1	1444.2	1394.9	1336.9	1420.5	1440.5	1418.6
20°	1884.9	1858.6	1667.7	1505.4	1484.8	1428.6	1367.5	1287.6	1360.0	1408.7	1422.4
22.5°	1999.1	1953.5	1716.3	1528.5	1429.9	1363.1	1303.8	1252.0	1275.1	1329.4	1320.6
25°	2076.5	2064.0	1783.8	1584.0	1428.0	1279.5	1199.6	1166.5	1178.3	1262.6	1254.5
27.5°	2261.2	2126.4	1771.9	1598.4	1368.1	1165.2	1125.3	1089.7	1077.9	1169.0	1194.0
30°	2384.8	2329.2	1851.2	1575.9	1292.6	1071.6	1013.0	1005.5	1009.2	1112.8	1119.7
32.5°	2594.5	2450.3	1981.0	1489.8	1182.7	1002.3	934.9	938.1	954.9	1030.4	1046.0
35°	2812.9	2726.8	1998.4	1428.0	1093.5	928.7	901.2	879.4	888.8	954.9	958.0
37.5°	3218.6	2920.9	2105.8	1332.5	1027.9	900.6	848.2	828.8	833.8	871.3	898.1
40°	3575.6	3311.0	2055.9	1240.1	946.8	863.2	797.6	783.3	768.3	805.1	822.0
42.5°	4147.9	3589.3	2039.0	1138.4	908.7	812.6	767.7	729.6	715.2	746.5	777.0
45°	4720.3	3884.6	1947.3	1035.4	855.1	808.9	724.0	687.8	691.5	719.6	750.8
47.5°	5358.1	4280.9	1791.9	935.6	796.4	790.8	680.3	664.7	675.9	707.1	738.3
50°	6112.1	4701.5	1663.3	845.7	754.6	736.5	674.7	656.0	666.6	703.4	734.0
52.5°	6936.5	5162.8	1569.7	762.7	707.1	693.4	682.2	664.1	676.6	708.4	740.2
55°	7756.0	5584.1	1506.0	705.9	666.6	675.3	697.8	684.7	690.9	714.6	746.5
57.5°	8363.9	5806.2	1378.1	645.3	633.5	664.7	699.6	677.8	681.5	714.6	749.0
60°	8717.2	5848.7	1167.7	596.0	607.3	643.5	680.3	652.2	649.7	704.0	747.1
62.5°	8678.5	5602.2	926.2	551.1	577.3	611.6	651.0	624.1	631.0	705.3	750.8
65°	8124.2	5098.5	736.5	513.0	541.1	576.7	626.6	616.0	649.1	755.2	804.5
67.5°	7150.6	4362.6	591.7	477.5	507.4	553.0	643.5	671.6	685.9	806.4	856.9
70°	5795.0	3389.6	493.1	446.2	480.6	564.2	692.2	686.5	674.7	782.0	822.0
72.5°	4186.6	2323.6	433.8	415.7	447.5	530.5	693.4	663.4	648.5	714.0	742.7
75°	2619.5	1386.2	378.8	377.0	396.9	475.6	662.2	635.4	594.8	627.2	664.7
77.5°	1496.0	709.6	318.9	335.8	347.6	412.5	592.9	568.6	532.4	546.1	582.9
80°	571.1	343.3	269.0	298.3	295.2	349.5	502.4	496.8	455.6	460.0	482.4
82.5°	269.0	192.2	223.4	256.5	239.7	278.4	408.2	406.3	370.1	335.2	353.3
85°	99.9	102.4	163.5	195.4	166.6	179.7	295.2	287.1	252.1	212.8	235.3
87.5°	22.5	36.8	80.5	101.7	58.0	55.5	119.2	103.6	99.9	59.3	62.4
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)