

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: P597065

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-13)
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-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11239 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

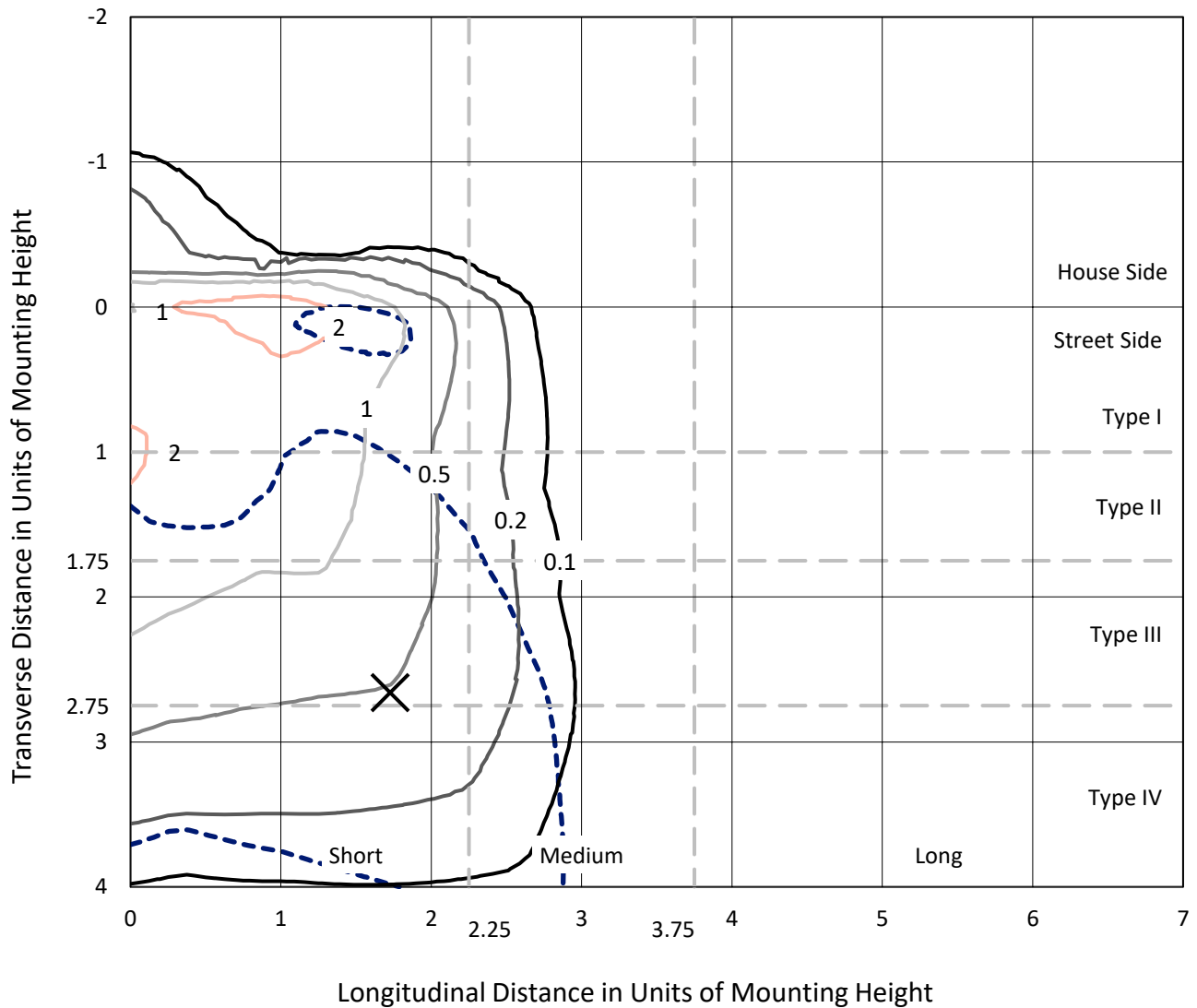
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

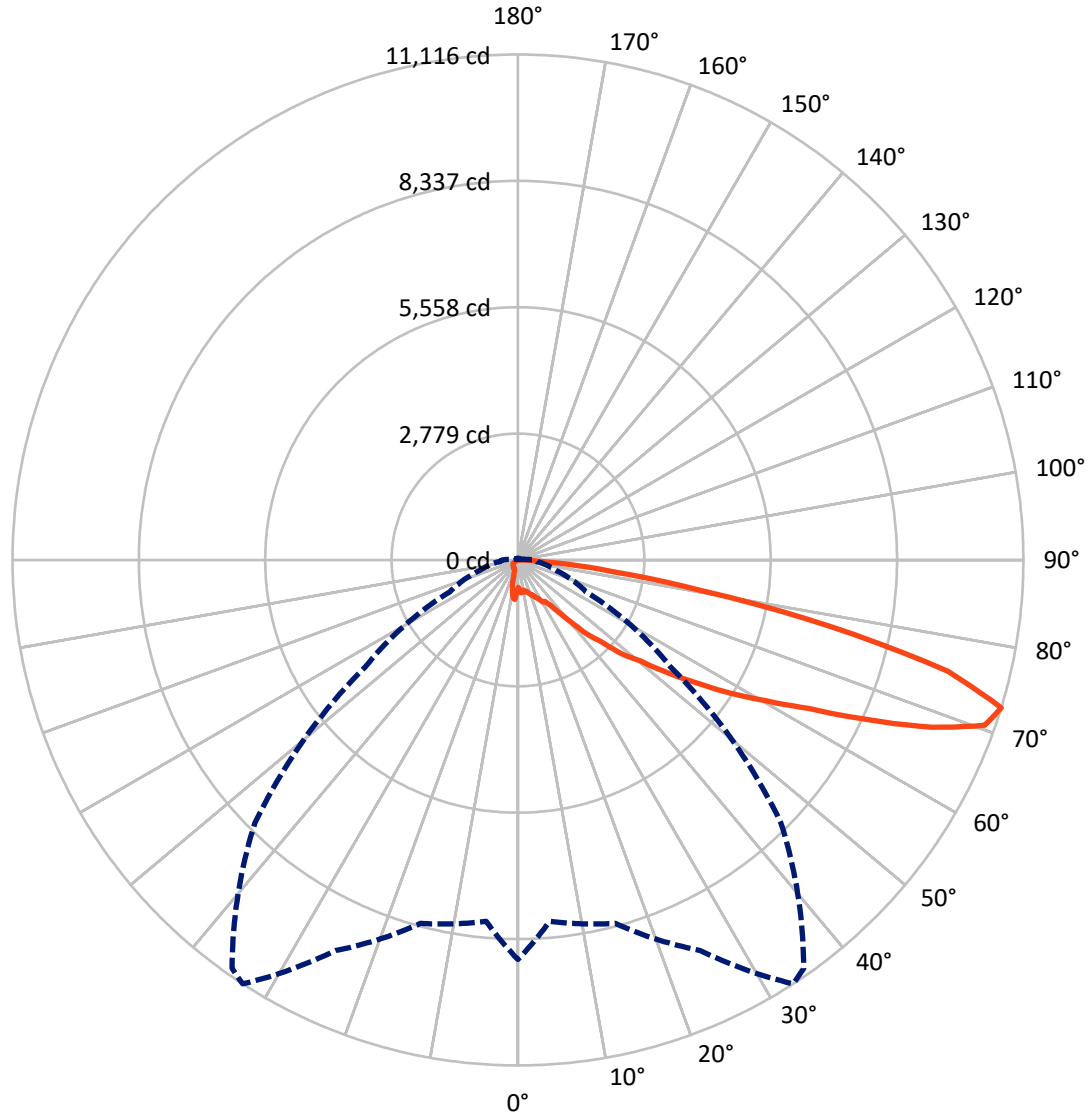
✕ Max cd
 - - - 1/2 Max cd



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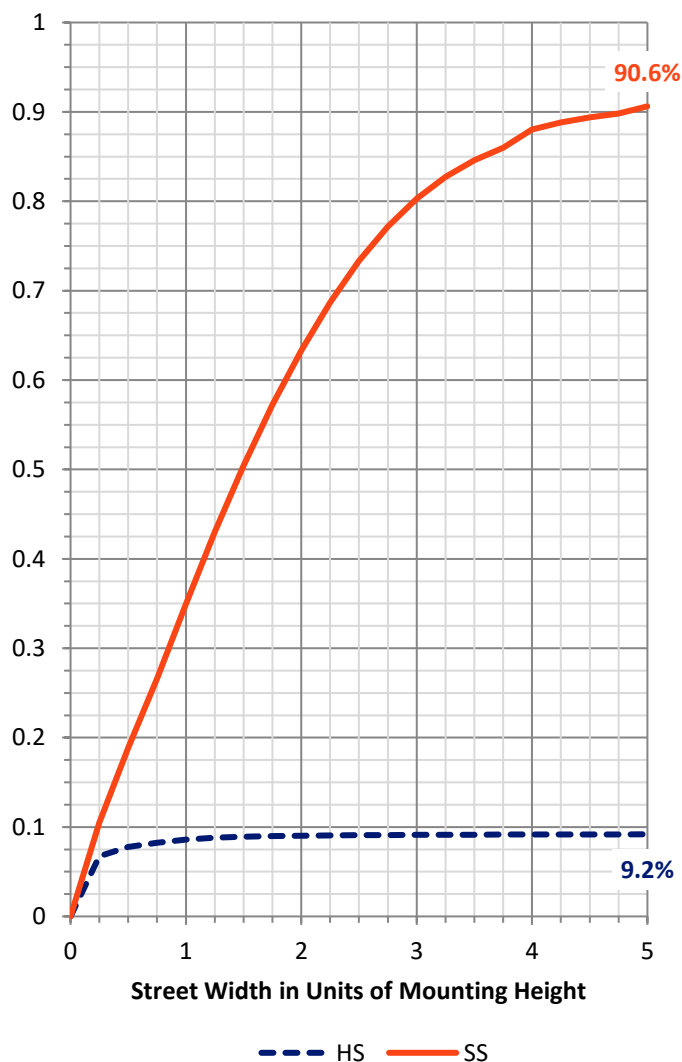
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1039.2	0.0	1039.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	10199.8	0.0	10199.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	11239.0	0.0	11239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	0.7
10°-20°	230.6	2.1
20°-30°	391.0	3.5
30°-40°	715.6	6.4
40°-50°	1510.3	13.4
50°-60°	2526.8	22.5
60°-70°	3382.2	30.1
70°-80°	2209.3	19.7
80°-90°	195.9	1.7
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°	11239.0	100.0
0°-180°	11239.0	100.0

Coefficient of Utilization

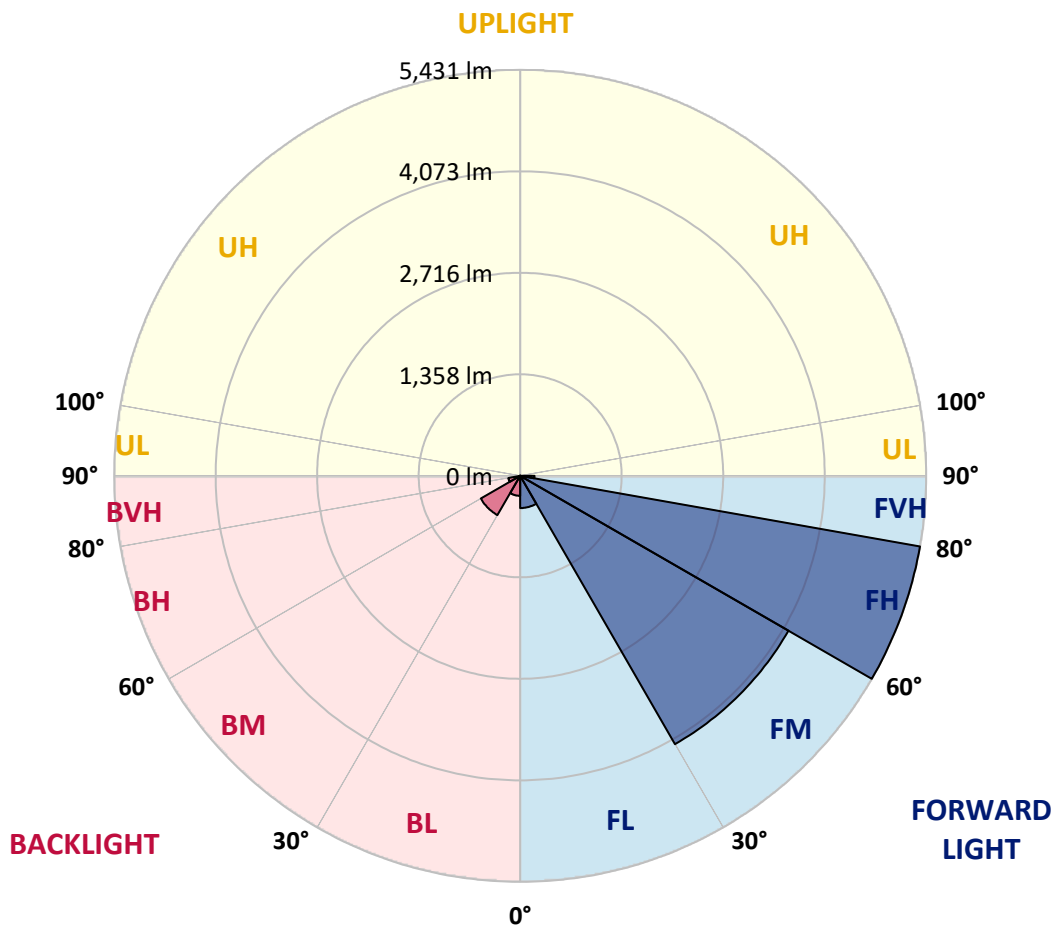


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.4	3.8			
FM (30°-60°)	4145.1	36.9			
FH (60°-80°)	5431.2	48.3			G3/7500
FVH (80°-90°)	192.1	1.7			G2/225
BL (0°-30°)	267.5	2.4	B1/500		
BM (30°-60°)	607.5	5.4	B1/1000		
BH (60°-80°)	160.4	1.4	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8
2.5°	712.6	685.1	645.2	647.7	654.6	660.2	675.2	668.9	657.1	656.4	712.6
5°	755.0	724.5	722.0	725.7	723.8	733.8	721.3	761.9	796.2	837.4	903.5
7.5°	734.4	720.1	702.0	720.7	720.1	715.1	723.2	805.6	888.6	941.0	1050.2
10°	675.2	658.9	672.7	678.9	674.5	696.4	750.7	818.1	917.3	1027.1	1080.1
12.5°	658.3	668.3	673.3	673.3	715.1	726.3	809.3	873.0	990.9	1077.6	1231.8
15°	723.8	743.2	708.9	701.4	714.5	720.7	813.1	889.8	1040.8	1199.3	1328.5
17.5°	828.0	826.8	773.7	744.4	765.0	780.0	831.2	921.0	1009.6	1294.8	1482.0
20°	899.8	901.0	805.6	744.4	812.4	821.2	878.0	949.7	1019.6	1342.8	1582.4
22.5°	992.1	959.1	853.6	794.3	840.5	848.6	911.0	967.8	1070.8	1337.2	1711.0
25°	1067.7	1046.4	913.5	872.3	913.5	902.3	959.1	1044.6	1125.7	1426.4	1786.5
27.5°	1185.0	1148.8	956.0	963.4	960.9	969.1	982.2	1113.2	1222.4	1430.8	1961.2
30°	1294.2	1272.9	1050.8	1050.8	1075.1	1059.5	1068.9	1227.4	1316.0	1531.9	2157.8
32.5°	1407.1	1408.3	1162.5	1103.2	1083.9	1148.1	1211.2	1282.9	1428.9	1705.4	2458.5
35°	1706.0	1681.0	1376.5	1228.6	1213.0	1209.3	1310.4	1504.4	1629.2	1931.3	2863.5
37.5°	2308.1	2221.4	1837.0	1513.2	1454.5	1434.6	1549.4	1748.4	1872.6	2263.2	3533.0
40°	2925.9	2766.8	2340.0	1974.9	1784.6	1698.5	1832.0	2001.1	2222.0	2630.1	4152.7
42.5°	3468.1	3271.6	2718.7	2472.9	2225.2	2187.7	2062.3	2337.5	2721.2	3164.3	4759.8
45°	3996.7	3609.8	3055.7	2861.0	2560.2	2581.5	2539.0	2777.4	3239.8	3749.6	5298.3
47.5°	4360.5	4012.9	3468.8	3216.1	3095.6	2971.4	3308.4	3556.1	3701.5	4121.5	5763.8
50°	4752.3	4400.4	3823.8	3647.2	3488.7	3614.2	4051.6	4084.7	4072.8	4468.4	6080.8
52.5°	5258.4	4843.4	4231.3	4031.6	4121.5	4246.3	4751.1	4757.3	4402.9	4760.4	6309.2
55°	5726.4	5266.5	4774.2	4585.7	4773.5	4879.0	5438.7	5233.4	4595.1	4958.9	6421.5
57.5°	6385.9	5853.7	5496.1	5164.2	5544.8	5443.7	6043.4	5738.2	4811.0	5090.5	6380.3
60°	7219.6	6593.1	6234.9	5883.6	6291.7	6360.3	6633.7	5990.3	4894.6	5133.6	6132.6
62.5°	8067.6	7437.4	6966.2	6727.9	7190.9	7416.8	7180.3	6115.7	4794.1	5049.3	5571.6
65°	9119.6	8312.8	7762.5	7622.7	8480.7	8812.6	7826.7	6146.3	4600.1	4585.7	4479.6
67.5°	9840.4	9054.7	8549.9	8783.9	9820.4	9847.2	8407.0	6155.7	3946.7	3590.4	2940.2
70°	10011.3	9170.2	8944.3	9633.2	10889.3	10551.7	8594.2	5681.4	2927.1	2130.9	1344.1
72.5°	8788.3	7978.4	8272.3	9472.8	11116.4	10961.7	8180.5	4099.0	1648.0	852.4	412.5
75°	5390.7	4900.8	6205.6	8031.4	9758.0	9658.1	6382.2	2117.8	663.9	340.7	154.1
77.5°	2344.3	2177.1	3238.5	5328.9	7011.8	6922.6	3739.6	780.0	343.2	239.6	78.0
80°	775.6	752.5	1226.8	2523.4	4107.1	4028.5	1575.6	324.5	244.6	192.2	43.7
82.5°	184.1	182.8	428.1	1161.2	2092.2	2026.7	483.6	179.1	177.2	151.6	23.1
85°	46.2	47.4	118.6	474.9	849.9	749.4	126.0	89.2	124.8	103.0	11.9
87.5°	0.0	0.0	30.6	68.0	128.5	80.5	13.7	23.7	34.9	36.8	6.2
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°	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8
2.5°	725.1	718.2	662.1	675.8	697.0	695.1	708.9	698.2	688.9	735.1	730.7
5°	922.3	884.8	867.3	891.7	878.6	848.0	873.6	869.2	861.7	877.3	889.2
7.5°	1070.1	1035.8	1020.2	969.1	894.8	836.1	845.5	823.7	803.1	827.4	852.4
10°	1118.8	1100.1	1098.2	998.4	928.5	843.6	743.2	656.4	633.4	602.8	616.5
12.5°	1251.1	1262.3	1191.8	1075.1	940.4	777.5	599.0	476.1	426.2	393.7	395.6
15°	1359.7	1399.0	1296.7	1087.0	827.4	592.8	398.7	288.3	257.1	249.0	246.5
17.5°	1521.3	1559.4	1329.1	1002.8	667.0	401.9	256.5	224.6	226.5	232.1	230.9
20°	1641.1	1635.5	1301.0	853.6	491.7	263.3	214.7	210.3	220.3	236.5	232.7
22.5°	1756.5	1717.8	1283.6	715.7	318.2	211.5	207.2	206.5	215.9	231.5	235.9
25°	1838.9	1845.1	1254.2	560.3	231.5	196.6	200.3	205.9	215.3	232.1	229.6
27.5°	2074.8	1900.1	1131.9	406.8	195.3	188.4	197.8	209.0	212.2	233.4	234.0
30°	2227.7	2107.2	1052.1	273.9	180.3	174.1	192.8	207.8	211.5	239.0	240.9
32.5°	2494.1	2196.5	959.7	203.4	167.9	169.7	181.6	201.5	219.0	248.3	249.6
35°	2825.4	2482.9	792.5	182.8	163.5	160.4	166.0	189.1	217.8	249.6	255.8
37.5°	3456.3	2654.5	628.4	177.2	163.5	157.9	163.5	177.2	214.0	262.1	275.2
40°	3878.7	3003.9	453.0	176.0	160.4	155.4	157.2	171.0	203.4	254.6	273.9
42.5°	4399.1	3151.2	333.8	172.8	157.2	149.8	151.0	168.5	192.8	239.0	253.3
45°	4825.3	3258.5	262.7	171.6	149.8	147.3	149.8	166.6	182.8	205.3	218.4
47.5°	5149.2	3383.3	210.9	163.5	147.9	147.3	144.1	156.0	166.0	171.6	180.3
50°	5386.3	3355.2	174.7	151.0	141.6	145.4	139.8	141.6	144.1	141.0	151.0
52.5°	5531.7	3254.1	145.4	136.0	134.2	137.3	130.4	124.8	120.4	117.9	124.2
55°	5584.7	3051.3	123.6	116.7	121.1	122.3	116.7	106.7	99.2	95.5	100.5
57.5°	5484.3	2742.4	107.3	96.7	106.7	106.7	99.2	88.6	79.9	73.6	78.6
60°	5229.7	2401.1	95.5	80.5	91.1	91.7	83.0	71.8	64.9	58.7	61.8
62.5°	4755.4	2029.2	83.6	69.9	78.6	79.2	68.6	58.0	53.0	46.2	48.7
65°	3807.0	1551.9	71.1	61.8	68.0	66.1	56.8	49.3	43.1	36.8	38.1
67.5°	2471.0	957.8	61.8	56.2	57.4	55.5	48.0	43.1	36.2	31.2	31.8
70°	1106.3	412.5	54.3	50.5	49.9	46.8	40.6	39.9	35.6	31.2	31.2
72.5°	341.3	155.4	46.8	45.6	43.1	39.3	35.6	38.1	34.9	30.0	29.3
75°	134.8	71.1	38.7	38.7	37.4	32.4	31.8	34.3	32.4	27.5	26.2
77.5°	70.5	44.9	31.8	33.1	32.4	25.0	28.7	31.2	30.0	23.1	19.3
80°	41.8	27.5	23.7	26.8	26.2	17.5	21.8	20.0	14.4	6.9	1.9
82.5°	23.1	12.5	10.6	15.6	15.6	6.2	11.2	10.0	5.6	0.0	0.0
85°	11.2	8.7	8.1	8.7	6.2	1.9	5.6	5.6	3.1	0.0	0.0
87.5°	5.6	5.0	3.7	3.1	2.5	0.0	1.9	2.5	0.0	0.0	0.0
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)