

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: P597063

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P597063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-11)  
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-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11084 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

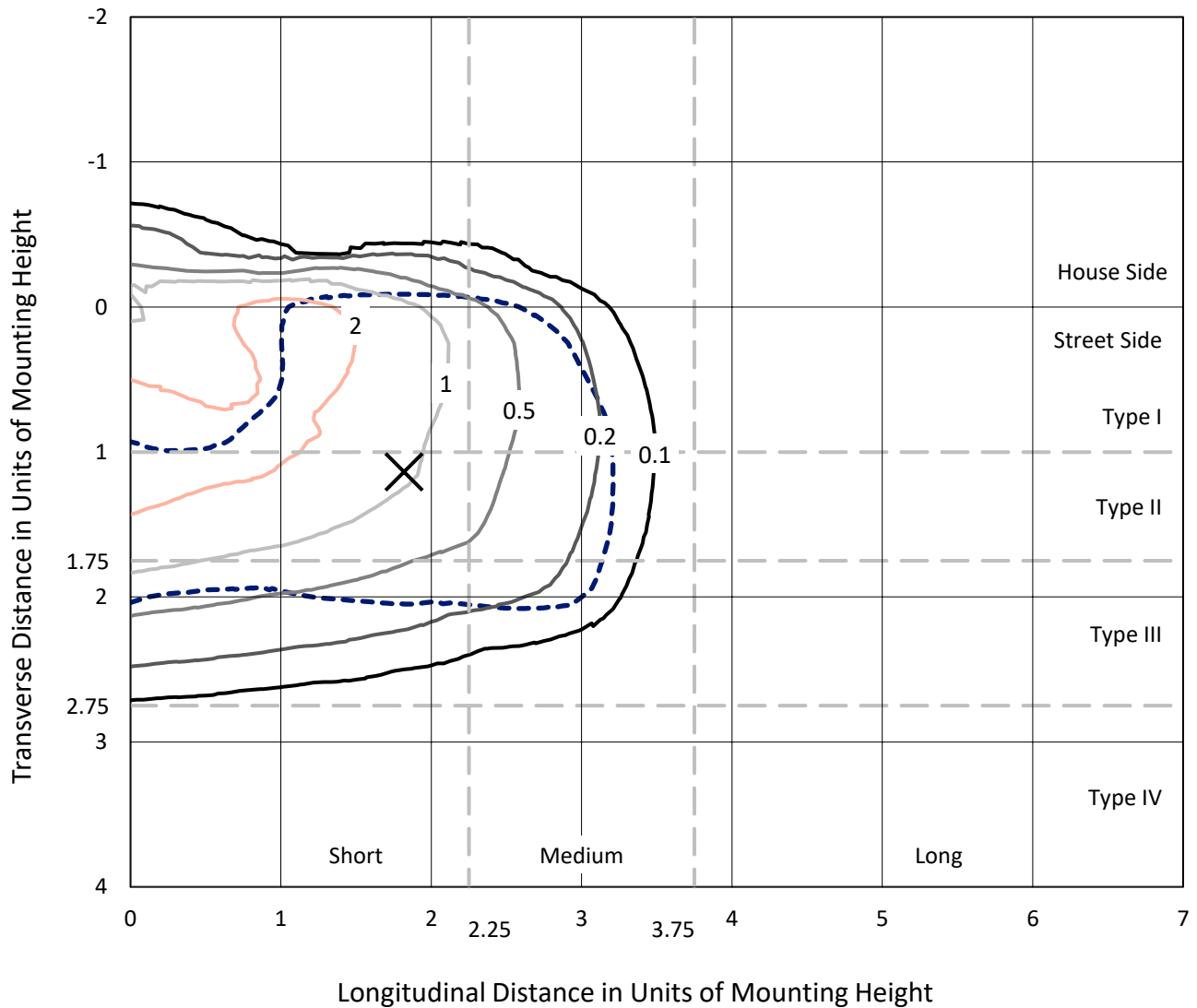
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

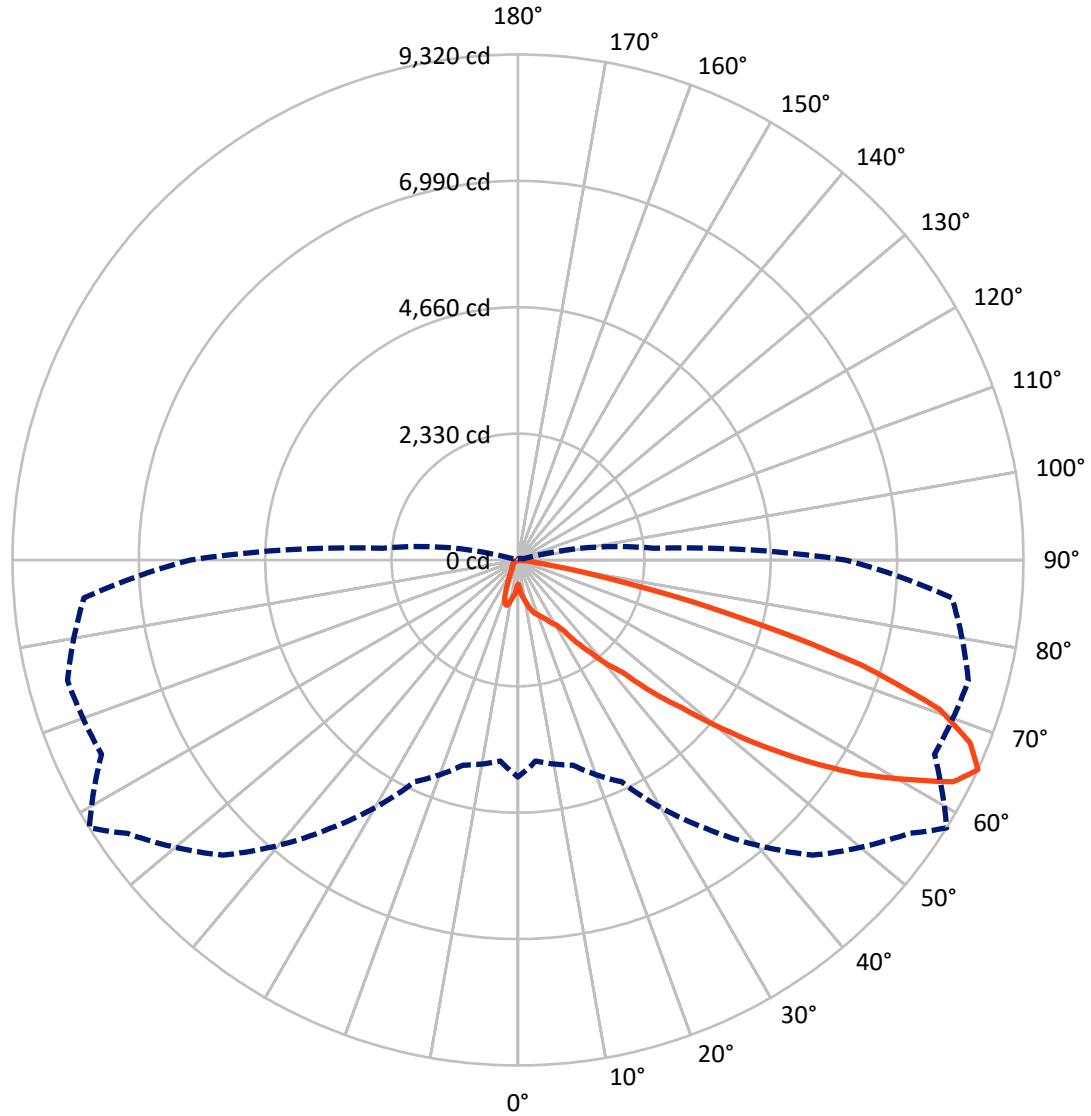
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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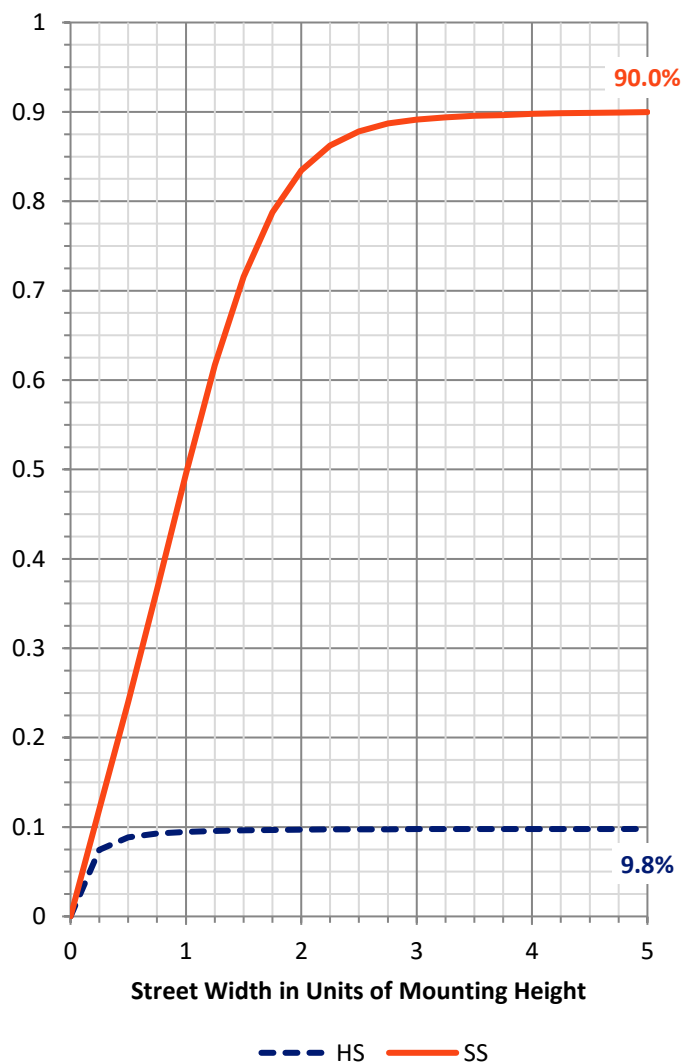
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1093.7	0.0	1093.7
	% Fixture	9.9	0.0	9.9
<b>Street Side</b>	Lumens	9990.3	0.0	9990.3
	% Fixture	90.1	0.0	90.1
<b>Total</b>	Lumens	11084.0	0.0	11084.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.4	0.6
10°-20°	227.5	2.1
20°-30°	440.4	4.0
30°-40°	878.7	7.9
40°-50°	1796.3	16.2
50°-60°	3186.1	28.7
60°-70°	3359.0	30.3
70°-80°	1089.0	9.8
80°-90°	44.5	0.4
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°	11084.0	100.0
0°-180°	11084.0	100.0

**Coefficient of Utilization**



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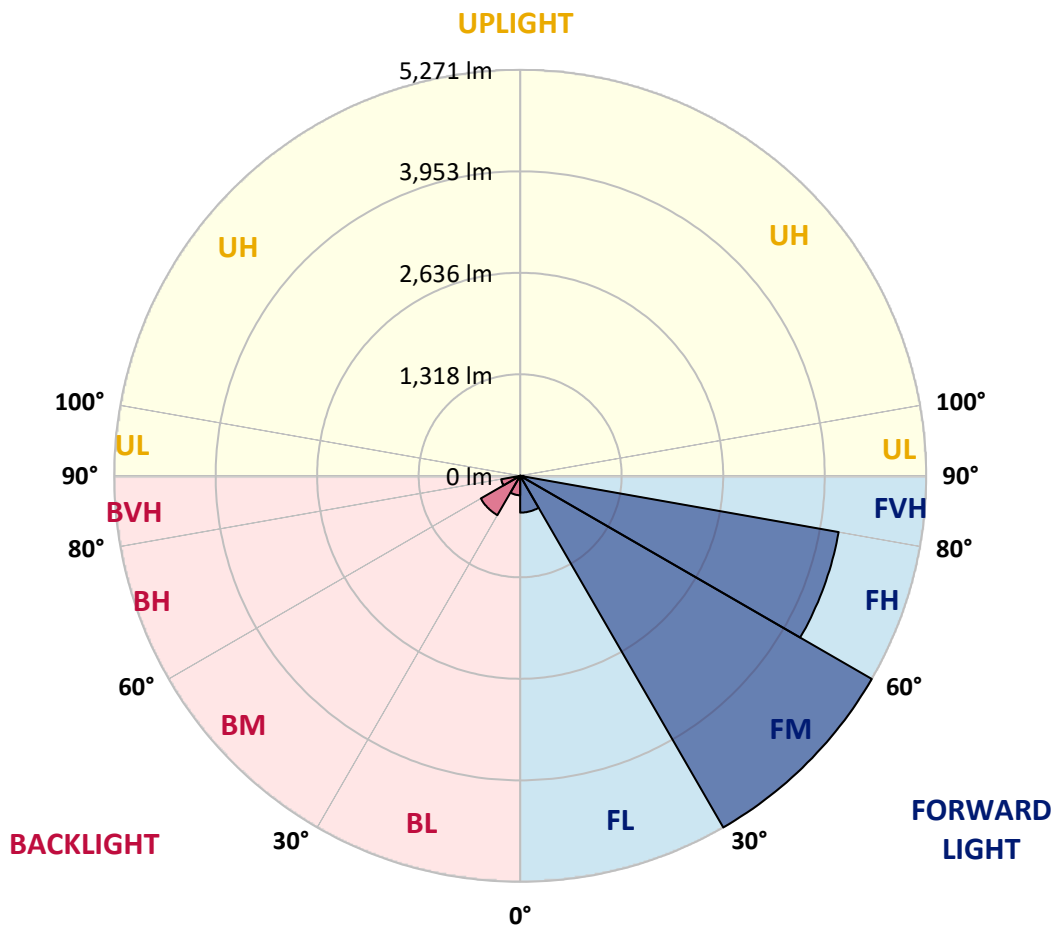
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.2	4.3			
FM (30°-60°)	5271.0	47.6			
FH (60°-80°)	4198.5	37.9			G2/5000
FVH (80°-90°)	42.6	0.4			G1/100
BL (0°-30°)	252.1	2.3	B1/500		
BM (30°-60°)	590.1	5.3	B1/1000		
BH (60°-80°)	249.6	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	541.7	525.5	499.9	504.2	509.2	519.2	511.1	503.6	495.5	484.9	525.5
5°	654.0	627.2	624.7	619.1	614.7	614.1	624.1	620.9	625.3	645.3	665.9
7.5°	695.2	684.0	662.8	671.5	657.8	647.2	691.5	705.8	733.3	742.6	796.3
10°	690.8	674.6	683.4	687.7	697.1	735.8	763.9	779.5	803.2	854.3	843.7
12.5°	710.8	725.2	734.5	735.1	783.2	854.3	874.3	887.4	929.9	949.8	1002.2
15°	777.6	801.3	786.3	792.6	808.2	894.9	941.7	970.4	1030.3	1095.2	1108.3
17.5°	873.1	888.0	856.8	834.4	877.4	924.9	1009.7	1039.7	1077.8	1229.4	1257.5
20°	993.5	1019.1	951.7	862.5	919.2	975.4	1067.8	1082.1	1122.7	1320.5	1364.8
22.5°	1275.0	1236.9	1133.9	994.8	977.9	1002.9	1090.9	1147.0	1215.7	1371.7	1474.7
25°	1552.7	1539.6	1387.9	1232.5	1120.2	1064.0	1180.7	1211.9	1324.3	1493.4	1550.2
27.5°	1861.6	1887.8	1634.4	1540.2	1319.9	1136.4	1236.9	1314.9	1447.8	1537.7	1674.4
30°	2269.1	2227.3	1930.2	1836.0	1584.5	1335.5	1382.3	1387.3	1582.6	1683.7	1813.5
32.5°	2588.6	2615.5	2242.3	2097.5	1896.5	1641.9	1491.5	1556.4	1696.2	1921.5	2044.4
35°	2934.4	2931.9	2568.0	2373.3	2110.6	1892.2	1815.4	1862.8	2038.2	2293.4	2325.9
37.5°	3451.1	3406.8	2977.4	2692.2	2468.8	2282.2	2223.5	2160.5	2341.5	2584.9	2706.6
40°	3938.5	3785.6	3388.7	3050.4	2764.6	2688.5	2476.3	2515.0	2568.6	2890.0	3226.4
42.5°	4430.9	4336.0	3805.5	3522.2	3170.9	2989.9	2851.3	2833.3	3088.5	3469.2	3816.8
45°	5080.5	4790.3	4366.0	4117.0	3710.1	3528.5	3416.8	3483.5	3713.2	4269.2	4500.8
47.5°	5625.9	5358.8	4994.4	4616.2	4189.3	4393.4	4183.7	4078.3	4393.4	4968.2	5275.8
50°	6094.6	5796.9	5428.1	5147.9	5078.6	5274.6	4850.2	4888.9	5093.6	5768.9	5942.3
52.5°	6435.4	6122.1	5800.1	5664.6	5948.6	6047.2	5834.4	5748.9	5934.9	6451.6	6535.8
55°	6691.8	6371.1	6119.6	6306.2	6855.3	6822.9	6897.8	6605.7	6783.6	7163.6	7123.7
57.5°	6707.4	6327.4	6180.1	6480.3	7234.2	7736.5	7955.6	7458.8	7559.9	7720.3	7630.4
60°	6216.9	5838.7	5826.9	6253.1	7344.0	7973.0	8452.3	8210.2	8074.8	8194.0	8023.6
62.5°	5239.6	4975.0	5098.6	5569.8	6935.2	7842.6	8716.9	9008.4	8481.0	8507.9	8265.7
65°	4000.9	3723.2	3916.6	4510.1	6041.6	7696.6	8791.8	9320.4	8473.5	8597.1	8033.6
67.5°	2649.8	2488.8	2707.8	3361.8	4803.4	6794.2	8753.1	8992.8	8204.6	8248.3	7171.7
70°	1367.9	1328.6	1505.9	2022.0	3229.5	5219.7	8373.1	8242.0	7658.5	7105.6	5531.7
72.5°	438.1	440.0	610.3	923.6	1741.1	3177.7	6436.0	6615.7	6128.3	5197.8	3377.4
75°	194.1	191.0	255.2	387.5	725.8	1424.7	3998.4	4192.5	3815.5	2859.5	1419.7
77.5°	139.8	135.4	163.5	226.5	359.5	483.0	1874.7	2023.2	1729.9	991.0	325.1
80°	98.6	98.0	118.6	159.1	224.7	214.7	592.2	664.0	531.7	240.3	95.5
82.5°	55.5	57.4	82.4	112.3	136.7	107.3	166.6	183.5	179.1	127.9	41.8
85°	26.8	30.0	53.7	81.1	71.8	41.8	59.3	64.3	74.9	74.3	21.2
87.5°	0.0	0.0	21.8	36.8	19.3	6.2	18.1	20.6	20.0	23.7	5.0
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°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	533.6	529.8	482.4	486.1	496.8	492.4	496.1	487.4	477.4	518.0	517.3
5°	674.6	646.5	631.6	617.8	620.3	592.2	608.5	616.0	614.7	637.8	644.0
7.5°	798.2	760.7	730.8	702.1	658.4	619.1	643.4	659.0	669.6	709.6	725.2
10°	856.2	825.6	813.8	757.6	726.4	702.1	672.7	651.5	660.3	649.7	660.3
12.5°	983.5	962.9	917.4	860.6	823.1	773.2	664.0	572.9	516.7	517.3	513.6
15°	1099.6	1098.4	1030.3	936.1	827.5	685.2	514.9	400.0	347.0	332.0	327.0
17.5°	1251.2	1232.5	1108.3	969.2	773.8	530.5	350.7	274.0	269.0	277.7	274.0
20°	1348.0	1320.5	1147.0	921.1	637.8	358.8	264.6	242.8	257.7	270.2	267.1
22.5°	1444.7	1403.5	1176.4	862.5	453.7	262.7	239.0	235.3	244.6	260.2	262.7
25°	1497.8	1489.6	1233.8	752.6	310.8	230.3	230.3	229.0	232.2	243.4	241.5
27.5°	1651.9	1542.1	1190.7	587.2	240.3	211.6	214.7	213.4	202.2	213.4	214.1
30°	1748.0	1697.5	1193.8	418.1	211.6	187.2	195.3	185.3	168.5	177.9	176.0
32.5°	1941.5	1815.4	1184.5	282.1	192.8	178.5	166.0	151.6	139.2	142.9	139.8
35°	2166.8	2070.6	1057.8	226.5	179.7	157.9	137.9	123.6	110.5	113.6	113.0
37.5°	2614.8	2309.7	952.9	204.1	171.0	144.8	121.7	101.7	94.9	96.7	98.6
40°	3029.8	2708.4	757.6	194.1	156.0	129.2	100.5	86.1	81.8	83.0	84.9
42.5°	3650.2	3025.5	572.3	184.1	141.0	109.2	83.6	74.3	69.9	72.4	73.6
45°	4250.5	3295.1	427.5	175.4	128.6	94.2	70.5	64.3	59.3	61.2	63.7
47.5°	4850.2	3594.6	318.9	161.6	114.8	81.1	60.5	56.2	53.0	53.7	56.8
50°	5386.9	3734.4	250.9	144.8	103.6	70.5	54.9	50.5	49.3	49.9	52.4
52.5°	5781.3	3735.6	211.6	129.8	93.0	62.4	51.8	46.8	46.2	47.4	49.9
55°	6137.7	3635.8	183.5	116.7	83.6	56.8	49.3	44.9	44.9	46.2	48.7
57.5°	6374.2	3452.3	159.1	103.0	75.5	53.7	47.4	43.1	42.4	41.8	43.7
60°	6489.6	3202.1	134.8	90.5	68.0	51.8	46.2	38.1	37.4	36.2	37.4
62.5°	6416.6	2888.8	113.0	78.0	60.5	49.3	40.6	33.1	31.8	29.3	31.2
65°	6043.4	2508.1	95.5	66.8	52.4	41.8	34.3	28.1	25.0	21.8	21.2
67.5°	5280.2	2037.6	79.9	57.4	44.9	34.3	28.1	25.0	19.3	16.8	16.2
70°	3957.2	1391.0	66.2	49.3	37.4	29.3	23.7	22.5	18.1	16.2	15.0
72.5°	2321.5	750.7	55.5	43.1	31.8	24.3	19.3	20.6	18.1	15.0	13.7
75°	927.4	249.6	44.3	34.3	25.6	17.5	16.2	16.8	16.2	13.7	11.2
77.5°	211.6	78.6	34.3	26.8	20.0	11.2	13.1	14.4	14.4	11.2	8.1
80°	66.2	31.2	20.0	16.8	14.4	6.2	9.4	10.0	6.9	3.1	0.0
82.5°	21.2	8.7	6.9	6.9	6.2	1.2	1.9	1.2	0.0	0.0	0.0
85°	8.1	5.6	4.4	4.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	2.5	1.9	2.5	1.2	0.0	0.0	0.0	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)