

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: P597053

Luminaire Tested: **MSA-SA3C-835-U-SL3-HSS**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-19)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3C-835-U-SL3-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12325 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

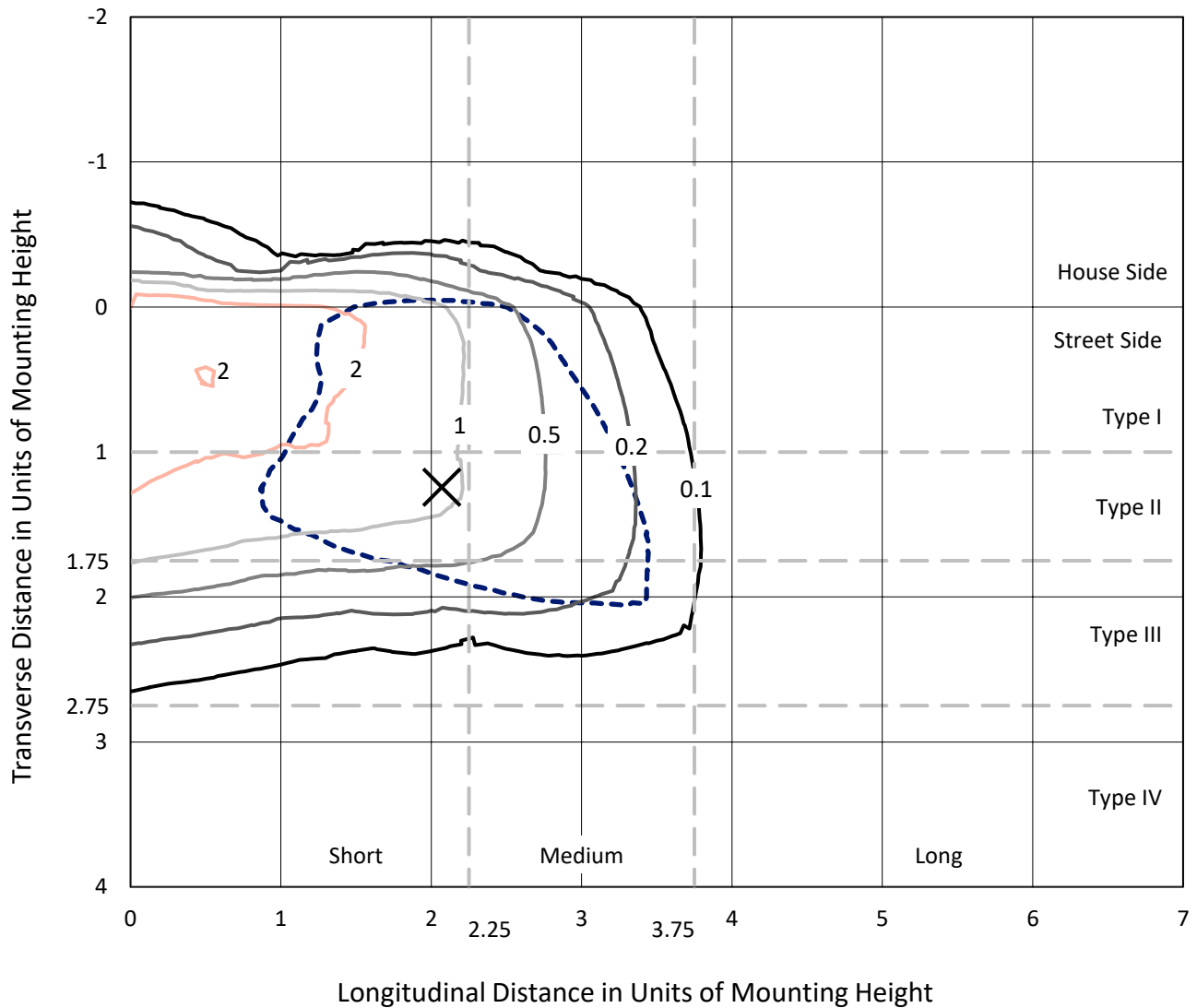
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

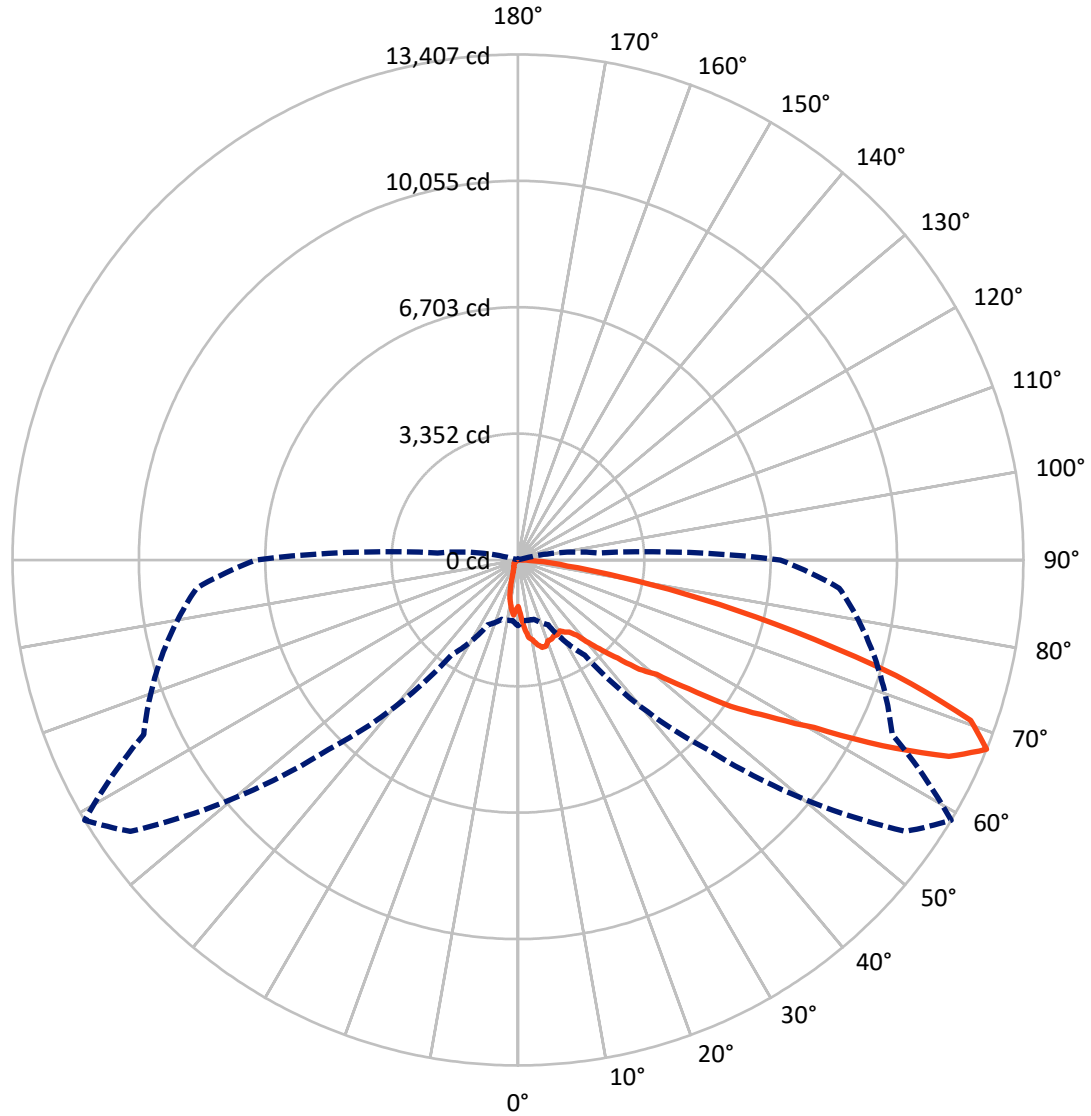
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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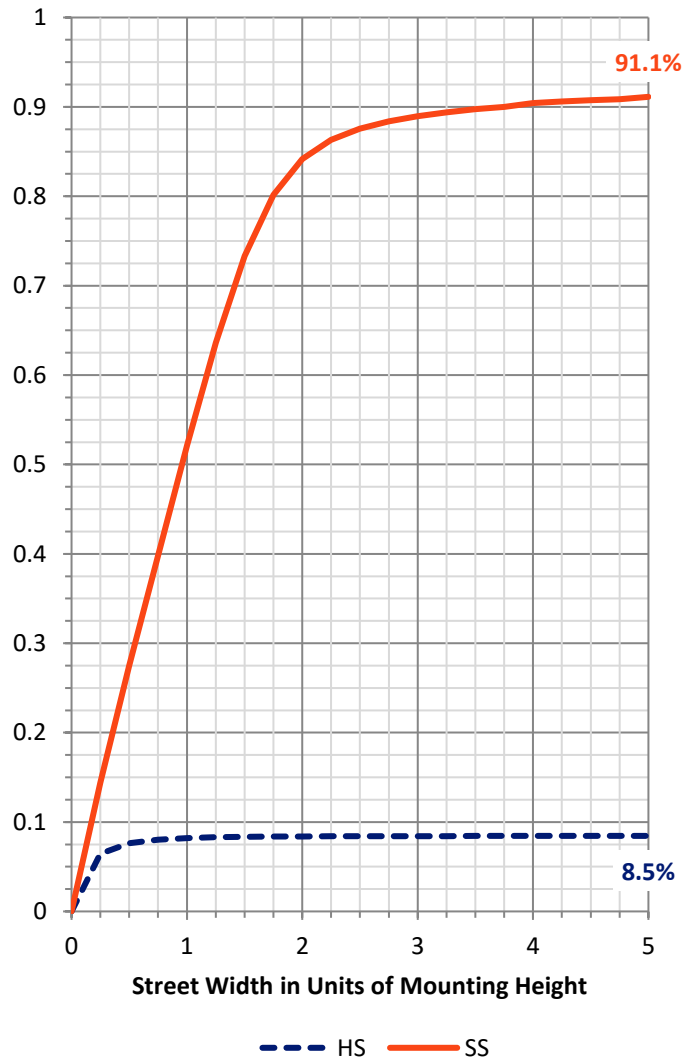
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1048.2	0.0	1048.2
	% Fixture	8.5	0.0	8.5
Street Side	Lumens	11276.8	0.0	11276.8
	% Fixture	91.5	0.0	91.5
Total	Lumens	12325.0	0.0	12325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	1.2
10°-20°	422.2	3.4
20°-30°	628.0	5.1
30°-40°	968.8	7.9
40°-50°	1729.0	14.0
50°-60°	3076.9	25.0
60°-70°	3583.5	29.1
70°-80°	1593.6	12.9
80°-90°	173.1	1.4
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°	12325.0	100.0
0°-180°	12325.0	100.0

Coefficient of Utilization

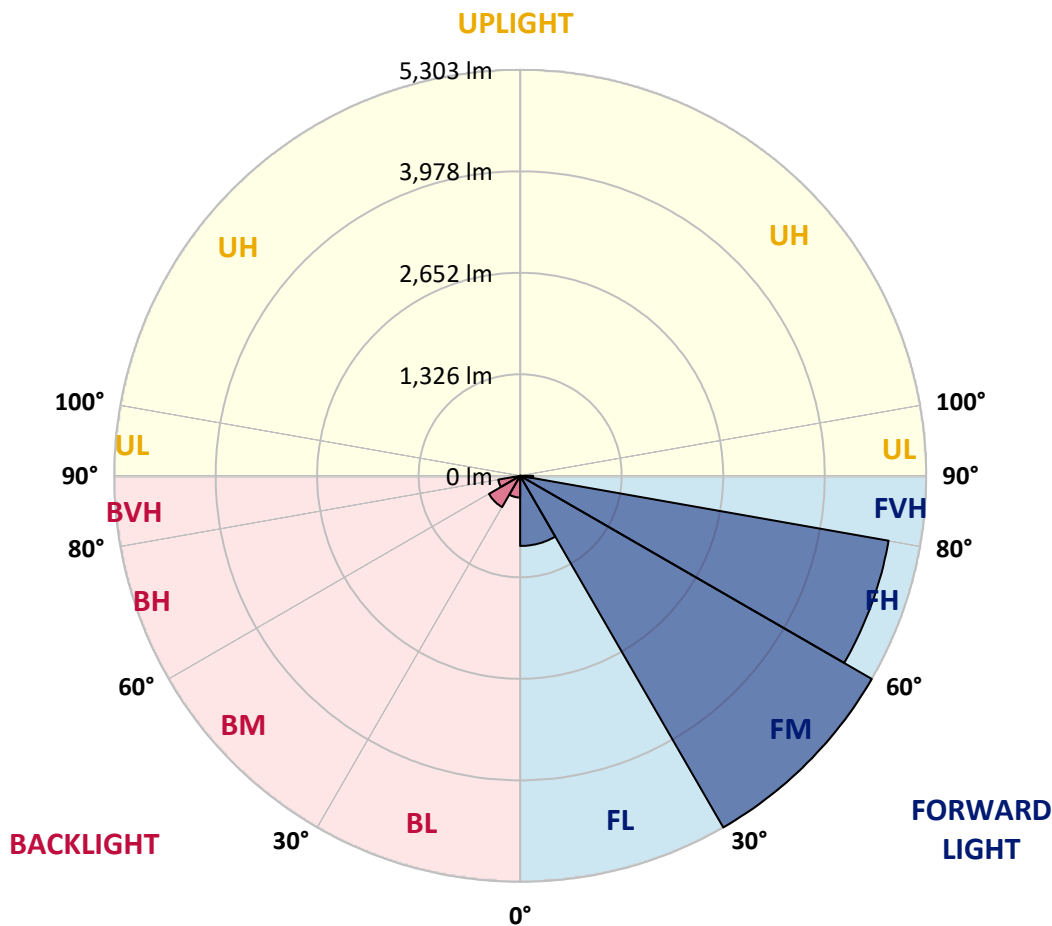


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.6	7.4			
FM (30°-60°)	5303.5	43.0			
FH (60°-80°)	4886.8	39.6			G2/5000
FVH (80°-90°)	170.0	1.4			G2/225
BL (0°-30°)	283.5	2.3	B1/500		
BM (30°-60°)	471.3	3.8	B1/1000		
BH (60°-80°)	290.3	2.4	B1/500		G1/500
BVH (80°-90°)	3.1	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°	59°	65°	75°	85°
0°	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2
2.5°	1607.6	1547.1	1460.9	1486.5	1509.6	1531.5	1495.3	1474.7	1464.7	1376.1	1487.2
5°	1973.9	1898.4	1859.1	1849.1	1824.1	1768.6	1861.0	1819.8	1833.5	1851.0	1887.2
7.5°	2085.6	2051.3	1994.5	2015.7	1920.9	1912.8	2040.7	2076.3	2123.1	2091.2	2134.9
10°	2028.2	1968.9	1995.8	1988.3	1984.5	2068.2	2158.0	2159.9	2229.8	2263.5	2115.6
12.5°	1914.6	1921.5	2017.6	2010.1	2134.9	2302.2	2322.8	2300.9	2415.1	2356.5	2334.0
15°	1990.1	2046.3	1993.3	2011.4	2055.7	2264.7	2337.8	2405.2	2513.1	2548.1	2396.4
17.5°	2081.3	2086.9	1990.1	1967.7	2079.4	2176.7	2349.0	2404.5	2415.1	2721.6	2536.8
20°	2032.0	2080.0	1964.6	1822.9	1996.4	2128.7	2303.4	2286.0	2357.1	2772.7	2568.7
22.5°	2163.0	2094.4	1946.5	1839.7	1898.4	2018.9	2166.8	2281.0	2387.7	2650.4	2609.8
25°	2175.5	2150.5	2018.9	1924.0	1914.0	1944.6	2150.5	2224.2	2391.4	2760.2	2574.9
27.5°	2315.9	2287.2	2017.6	2027.0	1933.4	1839.1	2071.9	2244.8	2459.4	2693.5	2649.2
30°	2496.9	2499.4	2151.8	2181.1	2047.6	1895.9	2136.2	2183.6	2505.6	2800.2	2704.1
32.5°	2680.4	2755.9	2417.0	2261.6	2219.8	2111.2	2056.3	2275.3	2455.1	2982.4	2841.4
35°	2959.3	3010.5	2635.4	2496.3	2332.1	2208.6	2273.5	2352.1	2636.7	3223.9	3021.7
37.5°	3431.7	3339.4	3027.3	2785.2	2745.9	2563.7	2596.1	2525.6	2822.0	3508.5	3378.7
40°	3697.6	3614.0	3289.5	3171.5	2920.6	2948.7	2846.4	2887.6	3091.0	3804.9	3703.8
42.5°	3974.7	3894.8	3610.2	3526.6	3287.6	3171.5	3125.3	3273.2	3503.5	4298.6	4170.0
45°	4253.0	4050.2	3929.7	3971.6	3864.2	3634.6	3580.9	3712.6	3954.1	4905.2	4661.8
47.5°	4487.7	4316.7	4226.2	4206.8	4165.0	4483.9	4265.5	4323.5	4430.2	5441.9	5274.6
50°	4910.8	4742.3	4600.6	4561.3	4764.7	5217.2	4880.2	4767.9	4981.3	6090.3	5984.8
52.5°	5521.7	5307.1	5081.8	5082.4	5466.2	5714.6	5874.3	5677.1	5717.1	6803.6	6756.8
55°	6012.9	5740.2	5553.6	5700.8	6273.1	6412.3	7022.0	6849.1	6797.3	7465.1	7407.7
57.5°	6080.3	5753.3	5664.7	5923.0	6706.2	7594.9	8250.8	7818.9	7739.7	8018.6	8132.8
60°	5451.2	5104.2	5171.0	5586.6	6847.3	8315.7	9379.1	9026.5	8522.9	8667.0	8745.7
62.5°	4065.8	3788.7	3975.9	4526.4	6303.7	8798.7	10685.3	10848.8	9431.5	9153.8	9137.0
65°	2637.9	2464.4	2587.4	3038.6	4770.4	8743.8	11852.3	12561.2	10147.3	9550.7	9259.9
67.5°	1744.9	1613.2	1630.7	1897.8	3084.8	7111.2	12550.0	13406.8	10952.4	9776.0	8555.3
70°	1300.6	1197.0	1203.2	1348.0	1831.0	4689.9	11577.1	12739.7	11246.3	8995.3	6905.3
72.5°	938.0	868.7	926.7	1087.7	1459.1	2480.0	8629.0	10491.8	9806.6	7095.0	4652.4
75°	649.7	604.1	699.0	909.9	1331.8	1539.6	5702.1	7552.5	6873.5	4451.5	2103.1
77.5°	360.1	346.4	483.0	741.4	1208.8	1261.9	3492.9	4962.6	3812.4	1595.7	500.5
80°	157.3	152.3	234.0	556.7	1016.0	1140.2	1966.4	2751.5	1499.6	284.6	161.6
82.5°	67.4	64.9	99.9	335.1	738.3	953.6	1212.6	1324.3	516.1	88.0	91.7
85°	11.9	13.1	39.9	176.6	449.3	484.3	878.1	783.8	259.6	41.8	65.5
87.5°	0.0	0.0	6.2	34.3	84.2	138.5	380.7	274.6	49.3	13.7	11.2
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°	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2
2.5°	1502.8	1467.8	1334.9	1318.0	1299.9	1273.1	1263.1	1205.7	1198.2	1271.8	1271.8
5°	1870.3	1745.5	1618.8	1519.0	1429.7	1306.2	1271.2	1235.0	1205.7	1198.2	1221.3
7.5°	2064.4	1912.1	1713.1	1459.1	1253.1	1074.0	999.1	946.7	888.0	905.5	914.9
10°	2053.8	1892.2	1638.2	1311.8	1083.4	885.6	695.2	584.1	522.3	491.8	488.0
12.5°	2158.0	2005.8	1587.6	1194.5	903.0	629.7	437.5	358.2	312.7	313.3	309.5
15°	2218.6	2052.6	1529.0	1045.9	635.9	405.0	303.3	285.8	279.6	286.4	282.7
17.5°	2325.3	2101.9	1396.0	824.4	437.5	305.8	279.0	272.1	280.2	294.6	290.8
20°	2317.2	2016.4	1206.9	581.0	323.3	275.2	264.0	253.4	270.2	285.2	282.7
22.5°	2309.7	1932.7	1029.1	428.7	270.2	250.9	241.5	237.1	245.9	263.4	267.1
25°	2243.5	1891.5	848.7	322.0	244.6	227.8	223.4	219.7	222.8	237.1	236.5
27.5°	2324.6	1787.3	655.3	270.2	226.5	206.6	202.8	196.6	190.3	202.8	204.7
30°	2307.8	1801.7	513.6	237.8	208.4	181.6	182.9	169.7	158.5	169.7	169.7
32.5°	2369.0	1696.8	411.3	215.9	190.3	171.0	155.4	141.7	133.6	140.4	141.7
35°	2458.2	1701.2	322.0	202.2	174.7	152.3	133.6	119.8	112.3	115.5	117.3
37.5°	2757.1	1671.3	269.0	191.6	169.1	141.0	121.7	103.6	98.6	102.3	104.2
40°	2951.8	1751.1	237.1	186.0	154.8	129.8	104.2	91.1	86.7	88.6	91.7
42.5°	3318.8	1795.4	221.5	179.7	141.7	111.1	89.2	81.8	75.5	78.0	80.5
45°	3711.3	1871.0	209.7	172.9	131.7	97.4	78.6	72.4	64.3	64.9	67.4
47.5°	4193.7	2050.7	196.0	161.0	117.9	88.6	69.9	60.5	53.0	52.4	55.5
50°	4841.5	2290.9	183.5	146.0	109.2	81.1	61.2	49.3	43.1	41.2	43.7
52.5°	5533.0	2601.7	170.4	135.4	98.6	71.1	52.4	39.9	34.3	33.1	34.9
55°	6218.2	2900.0	157.9	128.6	87.4	61.2	44.3	33.1	28.1	26.8	28.1
57.5°	6998.9	3222.7	141.7	114.8	76.8	53.0	36.8	27.5	23.1	21.8	22.5
60°	7586.8	3336.3	127.9	99.9	66.8	46.8	31.2	21.8	18.7	17.5	18.1
62.5°	7865.7	3150.9	114.8	86.7	58.7	40.6	26.2	18.1	15.6	14.4	14.4
65°	7793.3	2740.3	101.7	74.3	50.5	33.7	20.6	15.6	13.7	11.9	11.2
67.5°	6957.1	2144.3	86.7	62.4	42.4	27.5	17.5	15.0	12.5	11.2	9.4
70°	5517.4	1552.7	70.5	51.8	35.6	22.5	13.7	13.7	11.9	11.2	8.7
72.5°	3616.5	977.3	57.4	41.8	29.3	17.5	10.6	12.5	11.2	11.2	8.1
75°	1567.0	349.5	46.2	33.7	24.3	11.9	9.4	11.2	11.9	11.2	9.4
77.5°	367.0	108.6	36.2	26.8	20.0	8.1	9.4	11.2	11.9	10.6	8.1
80°	137.9	46.2	23.7	17.5	15.6	5.0	8.1	6.9	6.2	4.4	1.2
82.5°	83.6	19.3	12.5	8.7	7.5	1.2	3.7	2.5	1.2	1.2	0.0
85°	59.3	9.4	6.9	6.2	3.7	0.0	0.6	0.0	0.0	0.6	0.0
87.5°	8.1	2.5	3.1	3.1	2.5	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)