

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: P367427

Luminaire Tested: **MSA-SA2C-730-U-T2-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-9)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2C-730-U-T2-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8473 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

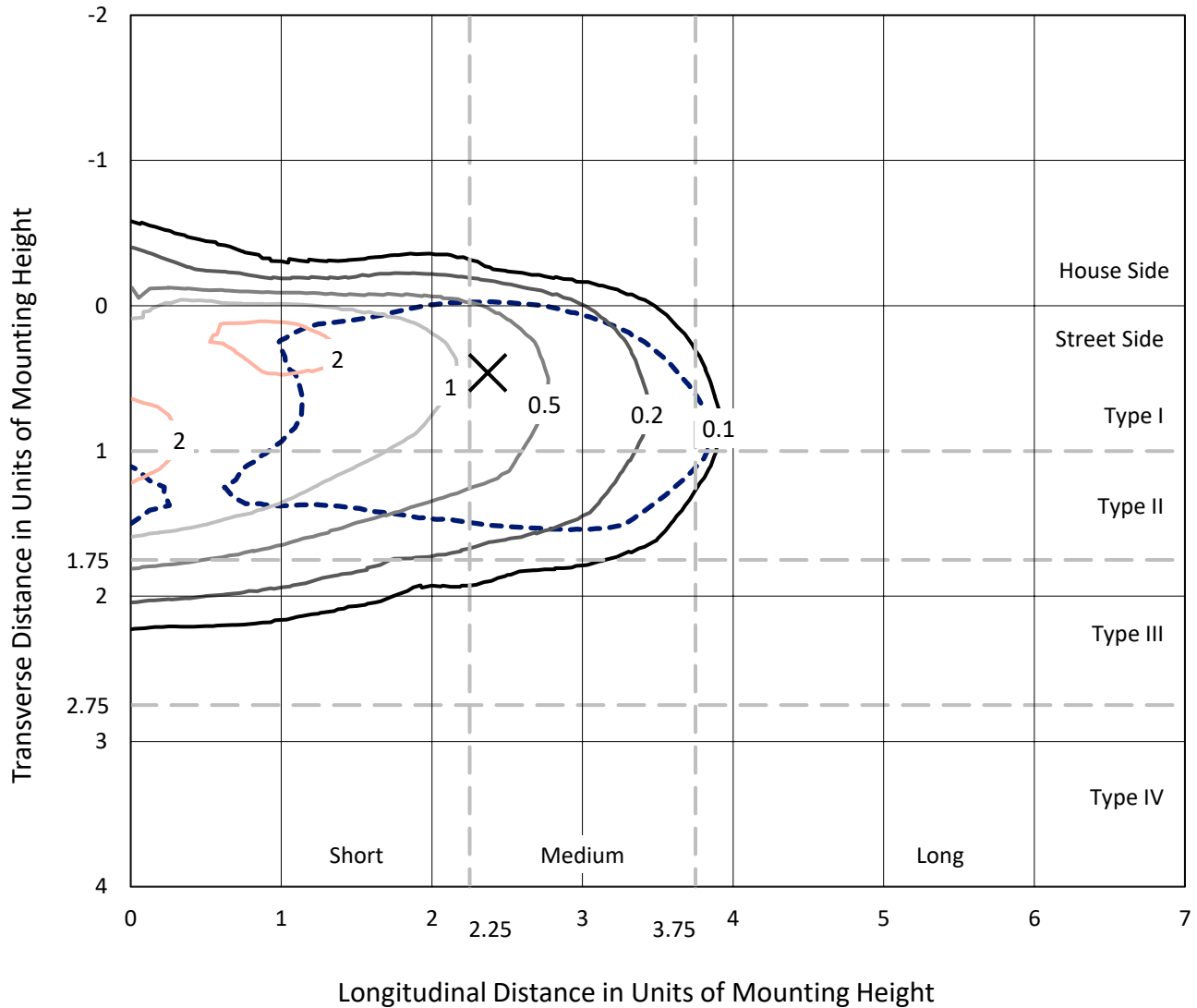
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

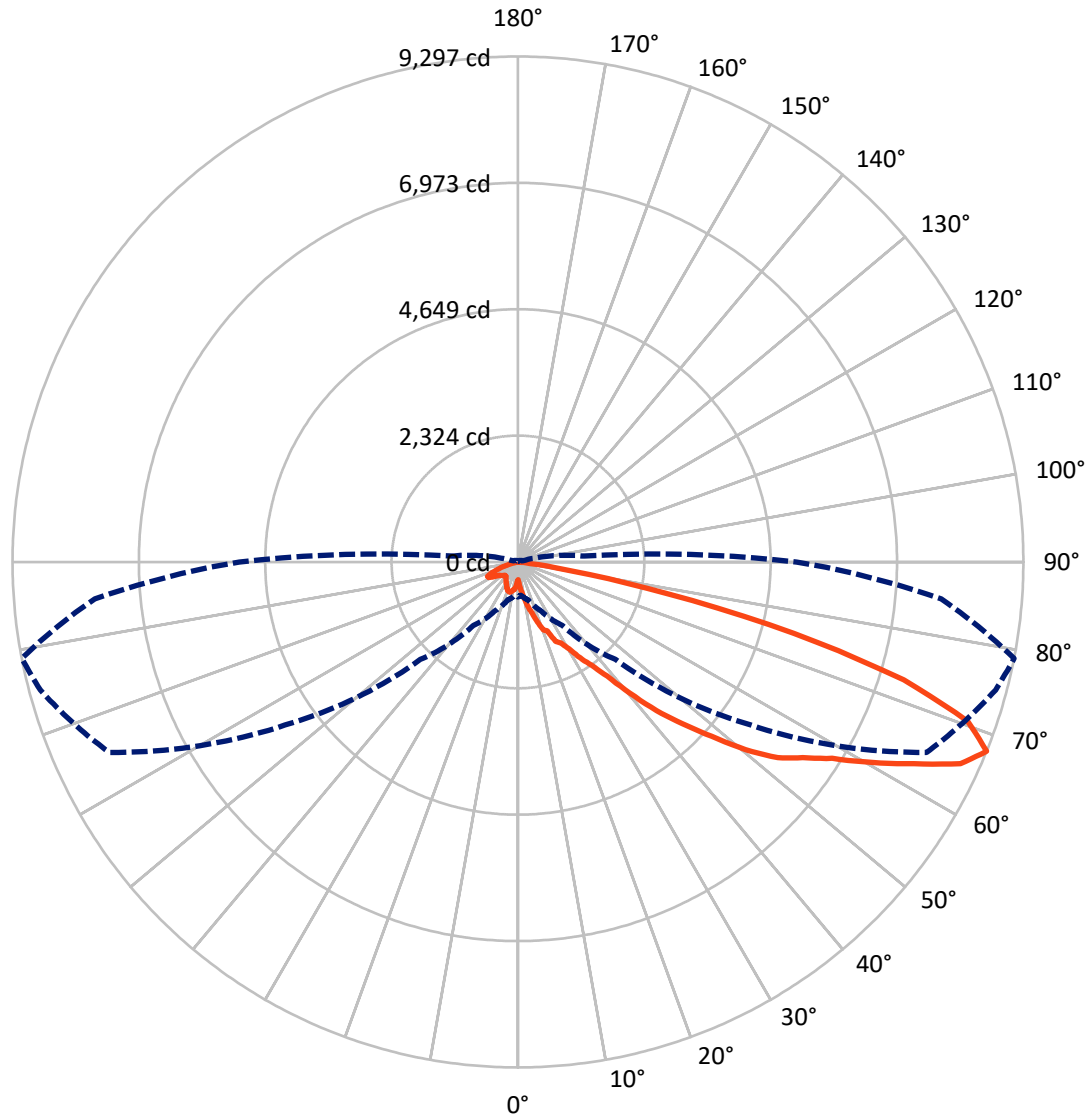
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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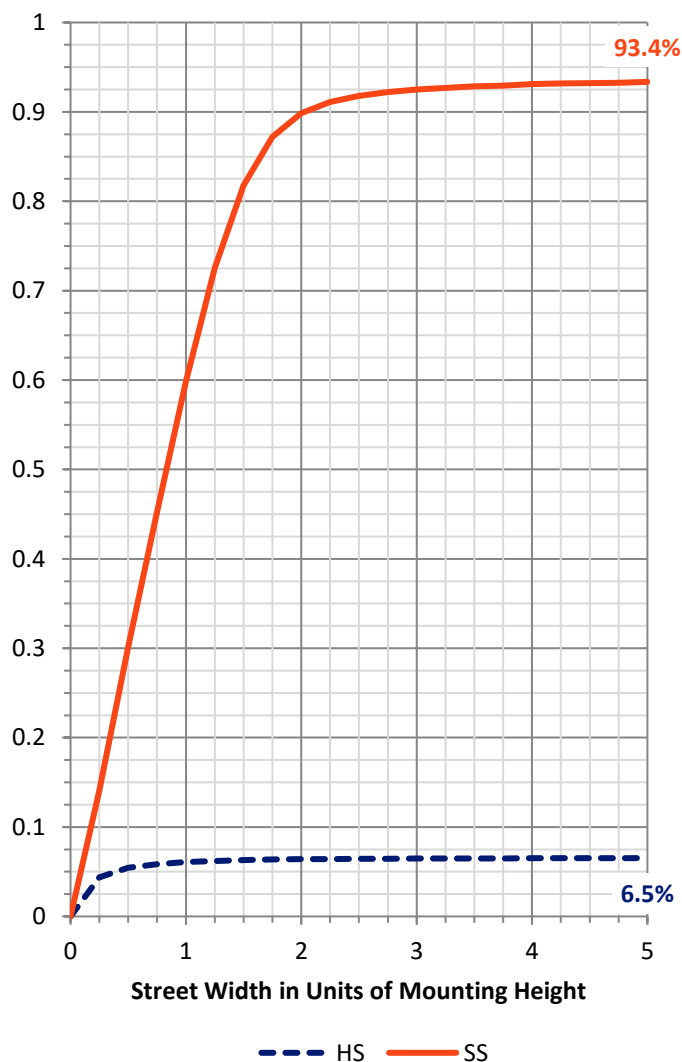
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	556.7	0.0	556.7
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	7916.3	0.0	7916.3
	% Fixture	93.4	0.0	93.4
Total	Lumens	8473.0	0.0	8473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	0.6
10°-20°	189.3	2.2
20°-30°	365.3	4.3
30°-40°	717.5	8.5
40°-50°	1437.3	17.0
50°-60°	2297.3	27.1
60°-70°	2311.5	27.3
70°-80°	1042.8	12.3
80°-90°	64.5	0.8
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°	8473.0	100.0
0°-180°	8473.0	100.0

Coefficient of Utilization



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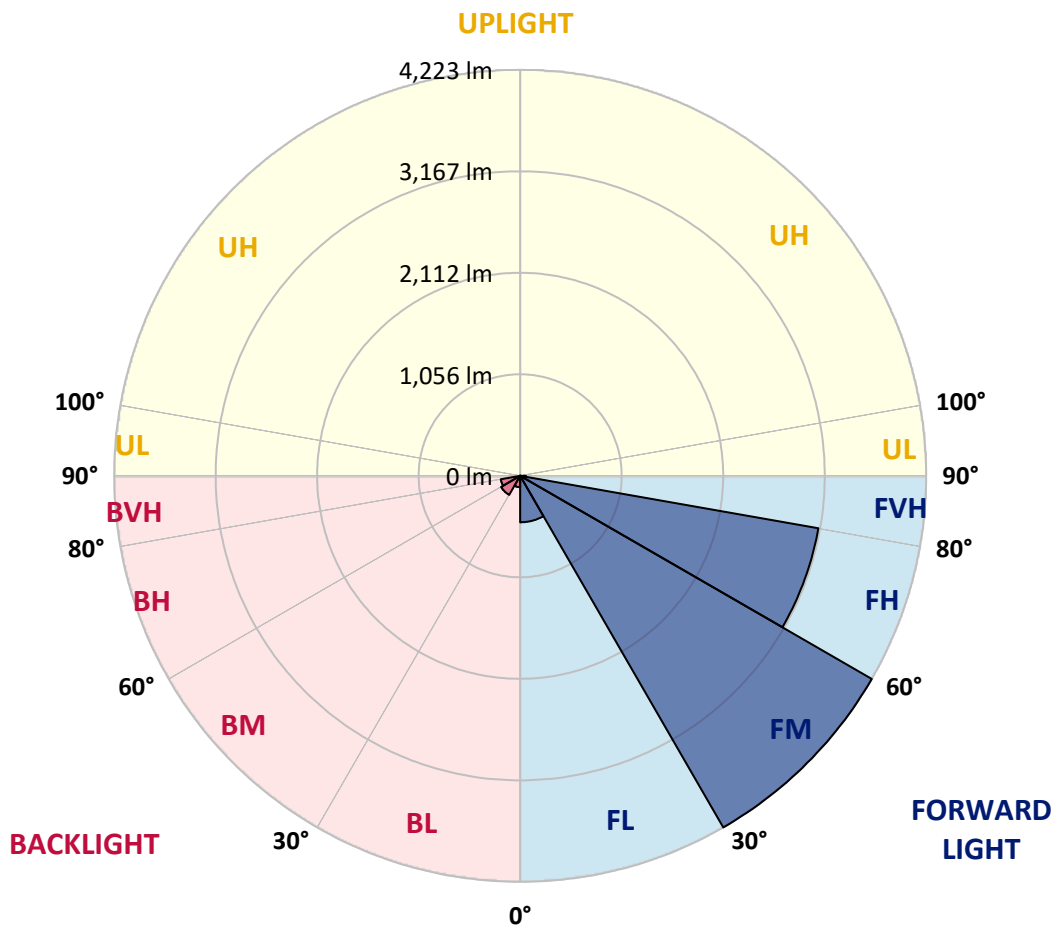
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.7	5.7			
FM (30°-60°)	4223.1	49.8			
FH (60°-80°)	3149.1	37.2			G2/5000
FVH (80°-90°)	60.4	0.7			G1/100
BL (0°-30°)	118.3	1.4	B1/500		
BM (30°-60°)	229.1	2.7	B1/1000		
BH (60°-80°)	205.2	2.4	B1/500		G1/500
BVH (80°-90°)	4.1	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5
2.5°	440.9	425.0	399.4	413.8	412.9	420.4	406.4	390.9	366.2	390.9	392.8
5°	634.8	605.3	586.6	582.9	562.4	543.2	539.0	523.1	511.0	489.0	508.6
7.5°	790.8	777.2	744.1	740.3	689.9	661.8	670.7	663.7	617.5	594.6	613.7
10°	857.1	833.7	838.4	833.7	812.2	820.2	802.0	781.0	744.1	706.2	658.6
12.5°	882.8	879.0	917.8	913.1	963.6	1024.3	983.7	948.6	863.2	853.8	788.9
15°	937.9	961.2	955.6	975.3	1007.5	1110.7	1109.8	1118.2	1027.6	979.0	885.1
17.5°	986.9	1004.2	976.2	998.6	1086.4	1149.0	1232.6	1199.9	1210.2	1160.7	1015.4
20°	965.9	985.5	957.5	944.0	1098.6	1217.2	1328.8	1305.0	1366.7	1335.8	1135.5
22.5°	1097.2	1060.3	989.7	945.8	1061.2	1215.8	1362.9	1462.4	1451.7	1376.0	1247.1
25°	1259.2	1236.8	1152.3	1074.7	1085.0	1207.4	1470.4	1616.6	1648.3	1616.1	1353.1
27.5°	1477.8	1472.7	1299.9	1266.2	1166.3	1170.5	1487.2	1810.9	1738.5	1688.0	1476.9
30°	1763.2	1722.6	1517.5	1473.6	1326.0	1253.6	1589.9	1978.5	1925.3	1856.6	1593.2
32.5°	2070.1	2076.2	1814.6	1669.8	1551.2	1465.2	1549.3	2057.0	2156.5	2100.9	1738.5
35°	2418.5	2445.6	2125.7	1955.7	1724.9	1598.3	1724.0	2298.0	2476.4	2330.2	1933.2
37.5°	2955.2	2954.3	2580.6	2242.0	2074.3	1937.0	2015.0	2517.1	2869.7	2664.2	2282.6
40°	3427.4	3324.7	2977.1	2588.1	2326.5	2289.1	2232.6	2816.9	3289.6	3165.8	2593.2
42.5°	3780.1	3707.7	3287.8	2985.1	2660.9	2542.3	2522.2	3256.5	3909.4	3736.1	3036.5
45°	4201.8	3964.5	3655.3	3382.6	3052.3	3017.8	2970.6	3702.5	4630.6	4240.1	3421.8
47.5°	4579.7	4356.4	4064.0	3713.7	3334.5	3619.4	3438.2	4094.4	5155.1	4788.5	3846.8
50°	4897.8	4660.5	4333.1	4066.4	3903.8	4097.2	3795.0	4417.1	5721.7	5424.6	4244.3
52.5°	5059.8	4791.3	4538.1	4373.2	4472.7	4429.3	4278.9	4808.1	6204.6	5982.3	4596.5
55°	4926.7	4664.2	4558.2	4639.9	4942.1	4816.5	4828.6	5413.9	6660.5	6354.1	4902.9
57.5°	4336.3	4096.7	4143.9	4367.6	4946.8	5275.6	5455.5	6002.4	7026.2	6817.5	5375.6
60°	3280.3	3087.4	3262.1	3659.1	4481.6	5184.1	5900.1	6590.9	7548.9	7483.5	6091.1
62.5°	2003.3	1898.7	2146.2	2641.3	3571.3	4735.2	6159.3	7375.6	8108.0	8177.6	6850.1
65°	1022.0	974.8	1181.2	1616.6	2412.9	3889.8	5972.0	7863.2	8685.8	8942.7	7573.7
67.5°	643.6	613.3	723.5	986.0	1423.7	2537.2	5228.9	8289.7	9094.0	9297.2	7815.1
70°	446.1	426.9	522.2	676.8	898.2	1366.7	3882.3	7891.7	8770.3	8779.6	7230.8
72.5°	283.0	268.1	361.1	501.2	662.8	705.8	2225.6	6192.5	7507.3	7420.9	5855.7
75°	183.6	176.1	229.3	367.1	509.1	435.3	1100.0	4178.5	5383.1	5247.6	3889.3
77.5°	131.7	127.0	153.7	245.2	362.5	304.5	493.2	2490.5	3086.4	2790.3	1887.9
80°	79.4	78.9	111.2	153.7	257.8	214.9	227.9	1130.8	1196.7	975.7	576.8
82.5°	39.7	41.1	62.1	99.0	165.8	140.6	104.2	376.5	321.3	236.8	116.8
85°	9.3	11.7	32.7	68.2	83.1	56.0	49.5	98.6	88.3	66.8	34.1
87.5°	0.0	0.0	10.3	16.3	22.4	9.3	16.8	18.7	23.8	18.7	7.0
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°	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5
2.5°	393.3	387.7	353.6	344.7	343.8	334.0	336.3	327.0	327.4	348.4	348.4
5°	501.2	468.5	435.8	406.8	387.2	359.2	348.9	344.7	341.0	349.4	354.5
7.5°	588.5	540.4	481.6	418.5	360.1	319.9	314.3	304.1	300.3	308.7	315.3
10°	627.3	567.5	486.7	394.7	340.0	307.3	280.2	265.8	263.0	262.5	264.8
12.5°	709.5	635.2	492.3	385.8	326.5	290.5	259.7	235.4	213.0	215.3	213.0
15°	775.3	687.5	492.3	364.3	293.8	257.8	203.6	191.5	188.2	193.4	189.2
17.5°	874.8	739.4	467.5	326.0	265.8	200.4	179.8	178.9	185.4	192.9	188.2
20°	934.6	746.4	426.0	282.1	218.1	173.8	166.3	158.8	168.1	174.2	171.9
22.5°	996.7	746.9	384.4	258.8	175.6	158.3	146.2	140.1	141.5	147.1	148.1
25°	1023.4	728.6	345.6	227.9	159.3	141.5	128.9	122.4	120.0	122.8	121.9
27.5°	1095.8	693.6	303.6	194.3	151.3	125.6	114.0	106.0	99.0	103.7	104.6
30°	1106.0	682.4	280.7	172.8	141.1	111.2	100.9	92.5	87.3	93.9	93.9
32.5°	1138.7	620.7	269.0	163.9	130.3	102.8	88.7	82.7	81.7	85.9	86.4
35°	1189.2	593.7	251.8	156.9	120.5	92.9	79.9	77.1	76.1	79.4	79.4
37.5°	1360.1	560.0	232.6	150.9	112.1	87.8	77.5	72.9	73.3	76.1	78.0
40°	1473.6	564.2	204.1	143.4	102.3	83.1	72.9	69.6	69.1	70.5	71.9
42.5°	1684.3	567.5	191.5	135.5	94.8	77.5	68.2	65.9	64.0	65.4	66.8
45°	1919.7	584.8	185.0	128.9	90.6	74.3	64.0	62.6	58.4	59.3	61.2
47.5°	2146.7	647.8	177.0	119.6	86.9	72.4	59.8	56.5	53.7	53.2	55.1
50°	2404.5	709.0	168.1	109.3	83.1	69.6	55.6	50.4	48.6	48.6	50.0
52.5°	2635.2	767.4	159.7	102.3	80.3	64.5	51.8	46.7	45.3	45.3	47.2
55°	2878.1	828.6	152.3	95.8	76.6	59.3	48.6	43.9	43.4	42.5	43.9
57.5°	3306.9	962.2	142.9	90.1	71.5	55.1	45.8	41.1	40.2	38.8	40.2
60°	3931.4	1167.2	130.8	84.5	65.4	52.3	43.4	37.8	36.4	34.1	34.6
62.5°	4541.9	1333.0	116.8	77.5	59.8	49.5	39.7	34.1	31.8	29.0	29.4
65°	5065.0	1398.4	101.8	69.1	54.2	43.0	34.6	29.9	26.6	22.9	22.4
67.5°	5126.6	1235.0	87.3	61.2	48.6	36.4	29.4	26.6	21.5	18.2	17.3
70°	4613.8	920.1	72.9	54.2	42.0	30.8	25.2	23.4	20.1	17.3	15.9
72.5°	3674.0	679.1	61.2	48.1	36.9	26.2	21.5	22.0	20.1	16.8	14.9
75°	2429.7	388.6	50.0	40.2	30.8	21.0	19.6	19.6	19.2	15.9	14.0
77.5°	1169.1	167.7	38.3	31.8	24.8	15.9	17.7	17.7	18.2	14.5	11.7
80°	331.6	50.4	23.8	21.5	18.2	10.7	14.0	13.5	12.1	8.4	5.1
82.5°	59.3	19.6	10.7	11.2	10.3	4.2	7.9	7.5	6.1	3.3	0.5
85°	16.3	7.5	6.1	6.5	5.1	1.4	3.3	4.2	3.3	1.9	0.0
87.5°	4.2	3.3	4.2	4.7	3.7	0.5	1.4	0.5	1.4	0.5	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)