

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: P367429

Luminaire Tested: **MSA-SA2C-730-U-T3-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-11)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2C-730-U-T3-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) 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: 8297 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

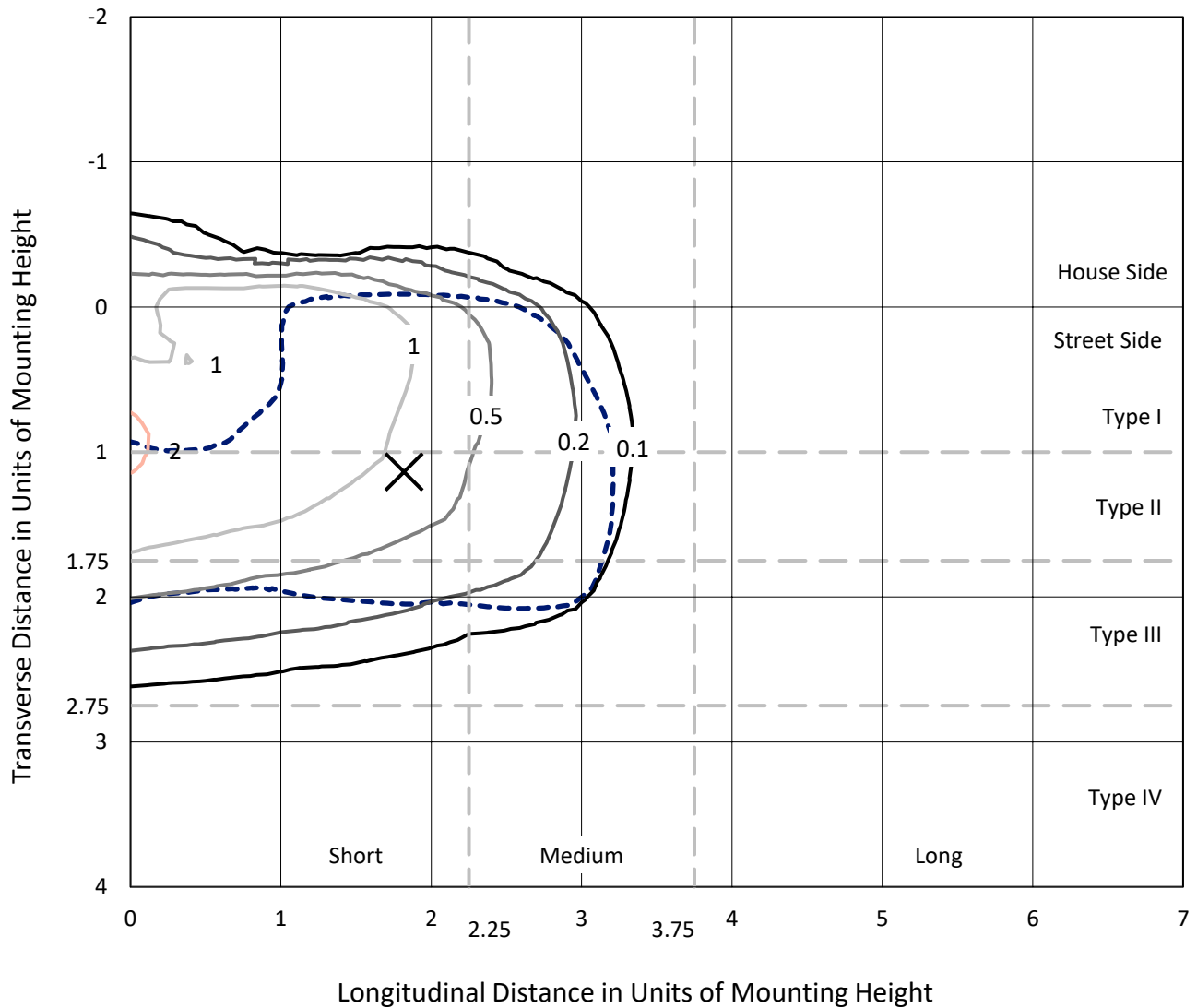
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

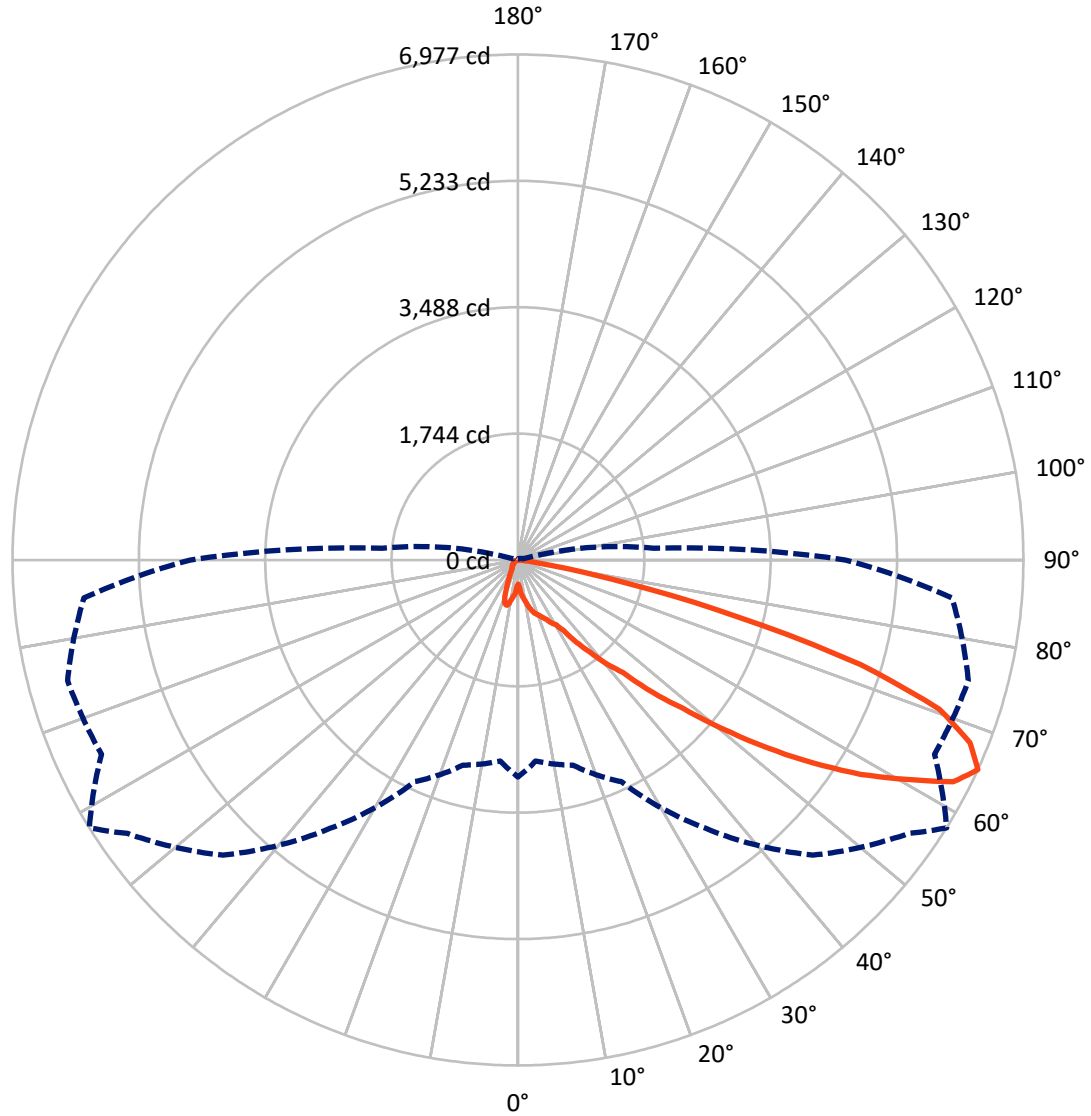
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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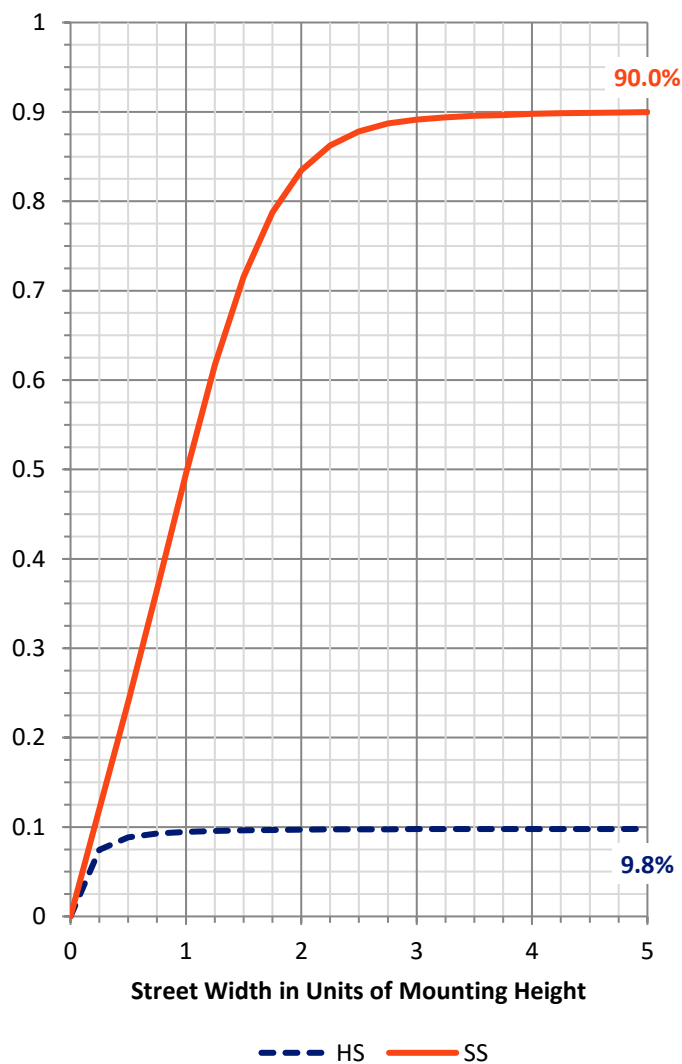
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	818.7	0.0	818.7
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	7478.3	0.0	7478.3
	% Fixture	90.1	0.0	90.1
Total	Lumens	8297.0	0.0	8297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	0.6
10°-20°	170.3	2.1
20°-30°	329.7	4.0
30°-40°	657.7	7.9
40°-50°	1344.6	16.2
50°-60°	2385.0	28.7
60°-70°	2514.4	30.3
70°-80°	815.2	9.8
80°-90°	33.3	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°	8297.0	100.0
0°-180°	8297.0	100.0

Coefficient of Utilization



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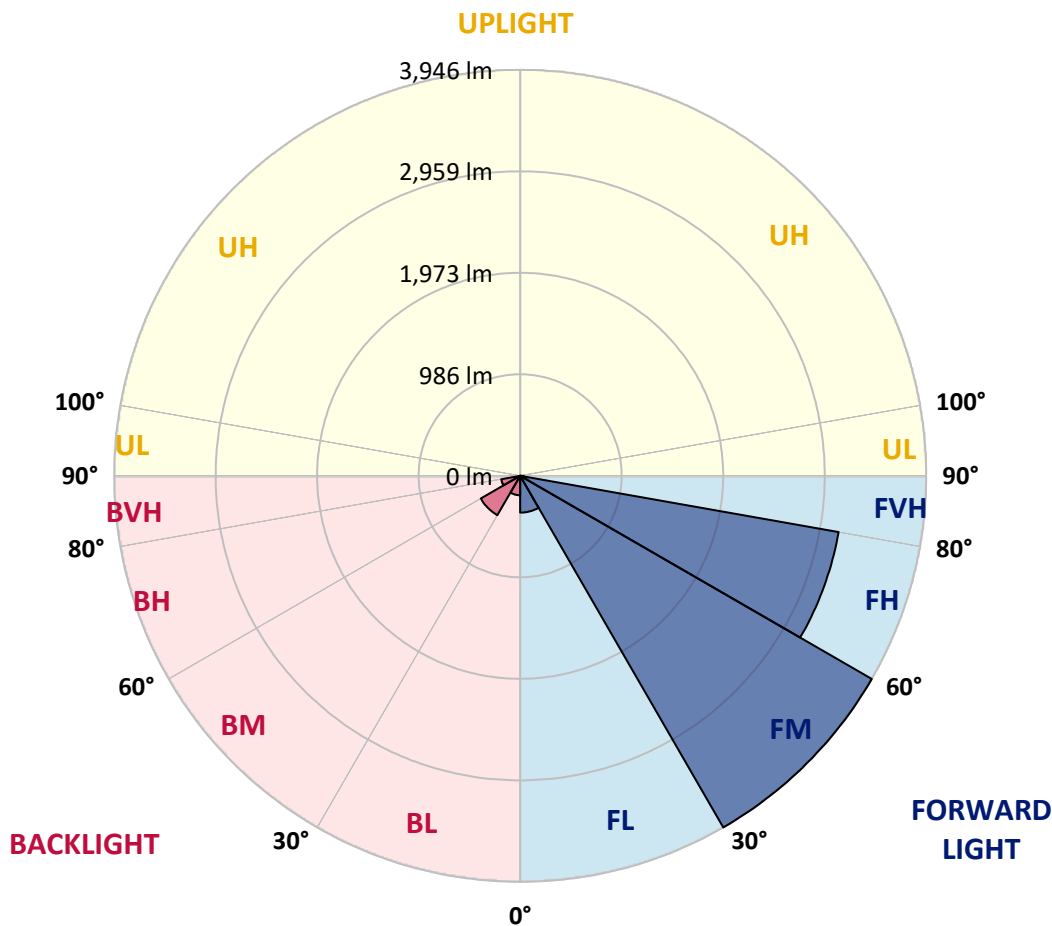
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.9	4.3			
FM (30°-60°)	3945.7	47.6			
FH (60°-80°)	3142.8	37.9			G2/5000
FVH (80°-90°)	31.9	0.4			G1/100
BL (0°-30°)	188.7	2.3	B1/500		
BM (30°-60°)	441.7	5.3	B1/1000		
BH (60°-80°)	186.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	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°	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1
2.5°	405.5	393.3	374.2	377.5	381.2	388.7	382.6	377.0	370.9	363.0	393.3
5°	489.6	469.5	467.6	463.4	460.1	459.7	467.1	464.8	468.1	483.0	498.4
7.5°	520.4	512.0	496.1	502.7	492.4	484.4	517.6	528.3	548.9	555.9	596.1
10°	517.1	505.0	511.5	514.8	521.8	550.8	571.8	583.5	601.2	639.5	631.6
12.5°	532.1	542.8	549.8	550.3	586.3	639.5	654.5	664.3	696.0	711.0	750.2
15°	582.1	599.8	588.6	593.3	605.0	669.9	704.9	726.4	771.3	819.8	829.7
17.5°	653.5	664.8	641.4	624.6	656.8	692.3	755.8	778.3	806.8	920.3	941.3
20°	743.7	762.9	712.4	645.6	688.1	730.2	799.3	810.0	840.4	988.5	1021.7
22.5°	954.4	925.9	848.8	744.6	732.0	750.7	816.6	858.6	910.0	1026.8	1103.9
25°	1162.3	1152.5	1038.9	922.6	838.5	796.5	883.8	907.2	991.3	1117.9	1160.4
27.5°	1393.5	1413.1	1223.5	1152.9	988.0	850.7	925.9	984.3	1083.8	1151.1	1253.4
30°	1698.5	1667.2	1444.9	1374.3	1186.1	999.7	1034.7	1038.5	1184.7	1260.4	1357.5
32.5°	1937.7	1957.8	1678.5	1570.1	1419.7	1229.1	1116.5	1165.1	1269.7	1438.3	1530.4
35°	2196.5	2194.7	1922.3	1776.6	1579.9	1416.4	1358.9	1394.4	1525.7	1716.8	1741.1
37.5°	2583.3	2550.2	2228.8	2015.3	1848.0	1708.4	1664.4	1617.3	1752.7	1934.9	2026.0
40°	2948.2	2833.7	2536.6	2283.4	2069.5	2012.5	1853.6	1882.6	1922.8	2163.4	2415.2
42.5°	3316.7	3245.7	2848.7	2636.6	2373.6	2238.1	2134.4	2120.8	2311.9	2596.9	2857.1
45°	3803.0	3585.8	3268.2	3081.8	2777.2	2641.3	2557.6	2607.6	2779.5	3195.8	3369.1
47.5°	4211.3	4011.4	3738.6	3455.5	3136.0	3288.7	3131.8	3052.8	3288.7	3719.0	3949.3
50°	4562.2	4339.3	4063.2	3853.5	3801.6	3948.3	3630.7	3659.6	3812.9	4318.3	4448.2
52.5°	4817.2	4582.7	4341.7	4240.3	4452.8	4526.7	4367.4	4303.4	4442.6	4829.4	4892.4
55°	5009.2	4769.1	4580.8	4720.5	5131.6	5107.3	5163.4	4944.8	5077.9	5362.4	5332.5
57.5°	5020.9	4736.4	4626.2	4850.9	5415.2	5791.2	5955.2	5583.3	5659.0	5779.1	5711.8
60°	4653.7	4370.6	4361.8	4680.8	5497.4	5968.3	6327.0	6145.8	6044.4	6133.6	6006.1
62.5°	3922.2	3724.1	3816.6	4169.3	5191.4	5870.6	6525.1	6743.3	6348.5	6368.6	6187.4
65°	2994.9	2787.0	2931.8	3376.1	4522.5	5761.3	6581.2	6976.8	6342.9	6435.4	6013.6
67.5°	1983.5	1863.0	2027.0	2516.5	3595.6	5085.8	6552.2	6731.6	6141.6	6174.3	5368.5
70°	1024.0	994.6	1127.2	1513.6	2417.5	3907.2	6267.7	6169.6	5732.8	5318.9	4140.8
72.5°	327.9	329.3	456.9	691.4	1303.3	2378.7	4817.7	4952.2	4587.4	3890.9	2528.2
75°	145.3	142.9	191.1	290.1	543.3	1066.5	2993.0	3138.3	2856.1	2140.5	1062.8
77.5°	104.6	101.4	122.4	169.6	269.1	361.6	1403.3	1514.5	1294.9	741.8	243.4
80°	73.8	73.3	88.8	119.1	168.2	160.7	443.3	497.0	398.0	179.9	71.5
82.5°	41.6	43.0	61.7	84.1	102.3	80.3	124.7	137.3	134.1	95.8	31.3
85°	20.1	22.4	40.2	60.7	53.7	31.3	44.4	48.1	56.1	55.6	15.9
87.5°	0.0	0.0	16.4	27.6	14.5	4.7	13.5	15.4	14.9	17.8	3.7
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°	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1	332.1
2.5°	399.4	396.6	361.1	363.9	371.8	368.6	371.4	364.8	357.4	387.7	387.3
5°	505.0	484.0	472.8	462.5	464.3	443.3	455.5	461.1	460.1	477.4	482.1
7.5°	597.5	569.5	547.0	525.5	492.8	463.4	481.6	493.3	501.2	531.1	542.8
10°	640.9	618.0	609.2	567.1	543.8	525.5	503.6	487.7	494.2	486.3	494.2
12.5°	736.2	720.8	686.7	644.2	616.2	578.8	497.0	428.8	386.8	387.3	384.5
15°	823.1	822.2	771.3	700.7	619.4	512.9	385.4	299.4	259.7	248.5	244.8
17.5°	936.6	922.6	829.7	725.5	579.3	397.1	262.5	205.1	201.3	207.9	205.1
20°	1009.0	988.5	858.6	689.5	477.4	268.6	198.1	181.7	192.9	202.3	199.9
22.5°	1081.4	1050.6	880.6	645.6	339.6	196.7	178.9	176.1	183.1	194.8	196.7
25°	1121.2	1115.1	923.6	563.4	232.6	172.4	172.4	171.4	173.8	182.2	180.8
27.5°	1236.5	1154.3	891.3	439.6	179.9	158.4	160.7	159.8	151.4	159.8	160.2
30°	1308.5	1270.6	893.7	313.0	158.4	140.1	146.2	138.7	126.1	133.1	131.7
32.5°	1453.3	1358.9	886.6	211.2	144.3	133.6	124.3	113.5	104.2	107.0	104.6
35°	1621.9	1550.0	791.8	169.6	134.5	118.2	103.2	92.5	82.7	85.0	84.6
37.5°	1957.3	1728.9	713.3	152.8	128.0	108.4	91.1	76.1	71.0	72.4	73.8
40°	2268.0	2027.4	567.1	145.3	116.8	96.7	75.2	64.5	61.2	62.1	63.5
42.5°	2732.3	2264.7	428.4	137.8	105.6	81.8	62.6	55.6	52.3	54.2	55.1
45°	3181.7	2466.5	320.0	131.3	96.2	70.5	52.8	48.1	44.4	45.8	47.6
47.5°	3630.7	2690.8	238.7	121.0	86.0	60.7	45.3	42.0	39.7	40.2	42.5
50°	4032.4	2795.4	187.8	108.4	77.5	52.8	41.1	37.8	36.9	37.4	39.2
52.5°	4327.7	2796.3	158.4	97.2	69.6	46.7	38.8	35.0	34.6	35.5	37.4
55°	4594.4	2721.6	137.3	87.4	62.6	42.5	36.9	33.6	33.6	34.6	36.4
57.5°	4771.4	2584.3	119.1	77.1	56.5	40.2	35.5	32.2	31.8	31.3	32.7
60°	4857.9	2396.9	100.9	67.7	50.9	38.8	34.6	28.5	28.0	27.1	28.0
62.5°	4803.2	2162.4	84.6	58.4	45.3	36.9	30.4	24.8	23.8	22.0	23.4
65°	4523.9	1877.5	71.5	50.0	39.2	31.3	25.7	21.0	18.7	16.4	15.9
67.5°	3952.5	1525.2	59.8	43.0	33.6	25.7	21.0	18.7	14.5	12.6	12.1
70°	2962.2	1041.3	49.5	36.9	28.0	22.0	17.8	16.8	13.5	12.1	11.2
72.5°	1737.8	562.0	41.6	32.2	23.8	18.2	14.5	15.4	13.5	11.2	10.3
75°	694.2	186.9	33.2	25.7	19.2	13.1	12.1	12.6	12.1	10.3	8.4
77.5°	158.4	58.9	25.7	20.1	14.9	8.4	9.8	10.7	10.7	8.4	6.1
80°	49.5	23.4	14.9	12.6	10.7	4.7	7.0	7.5	5.1	2.3	0.0
82.5°	15.9	6.5	5.1	5.1	4.7	0.9	1.4	0.9	0.0	0.0	0.0
85°	6.1	4.2	3.3	3.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.9	1.4	1.9	0.9	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)