

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: P367433

Luminaire Tested: **MSA-SA2C-730-U-T4W-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-15)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2C-730-U-T4W-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8470 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

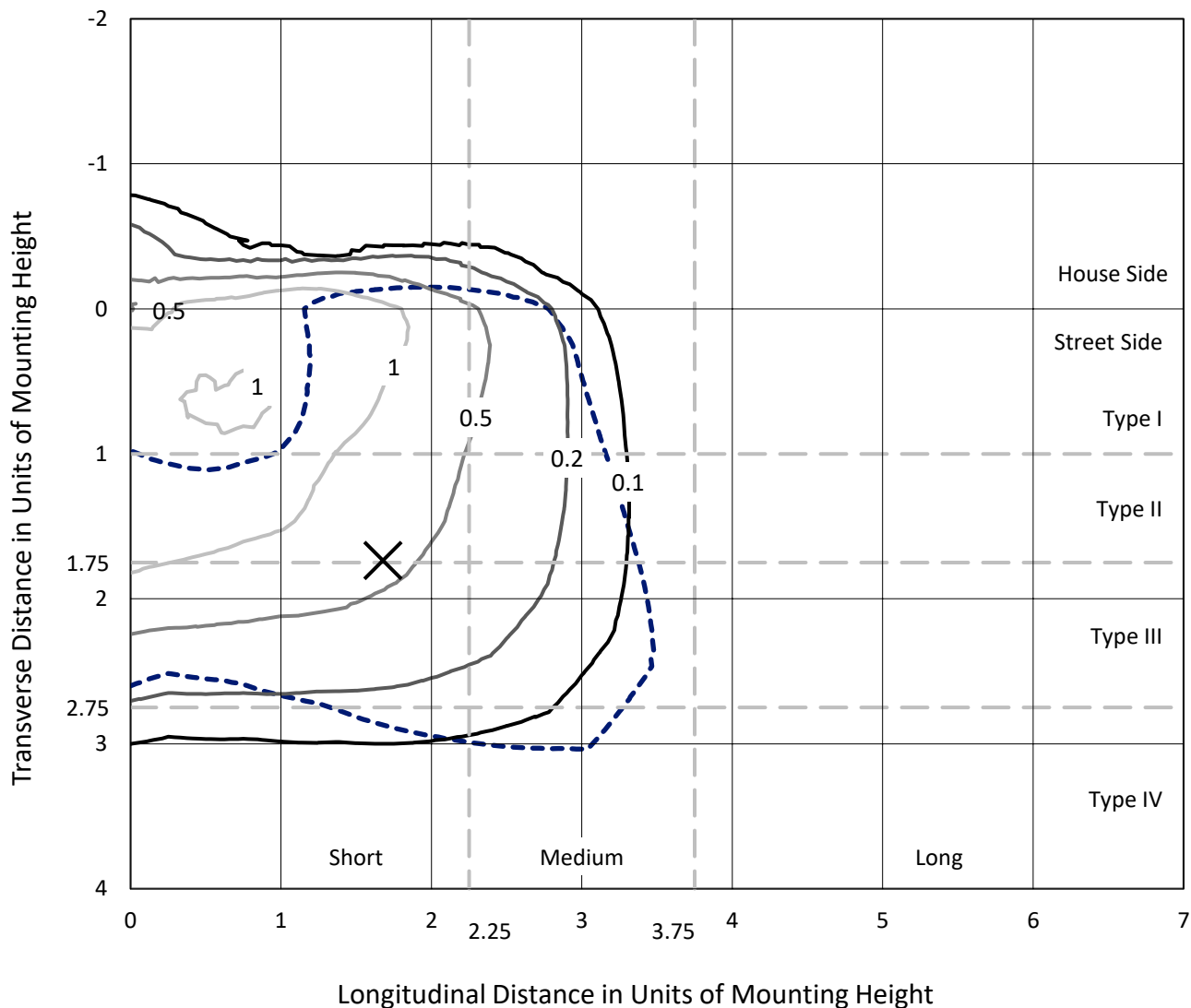
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

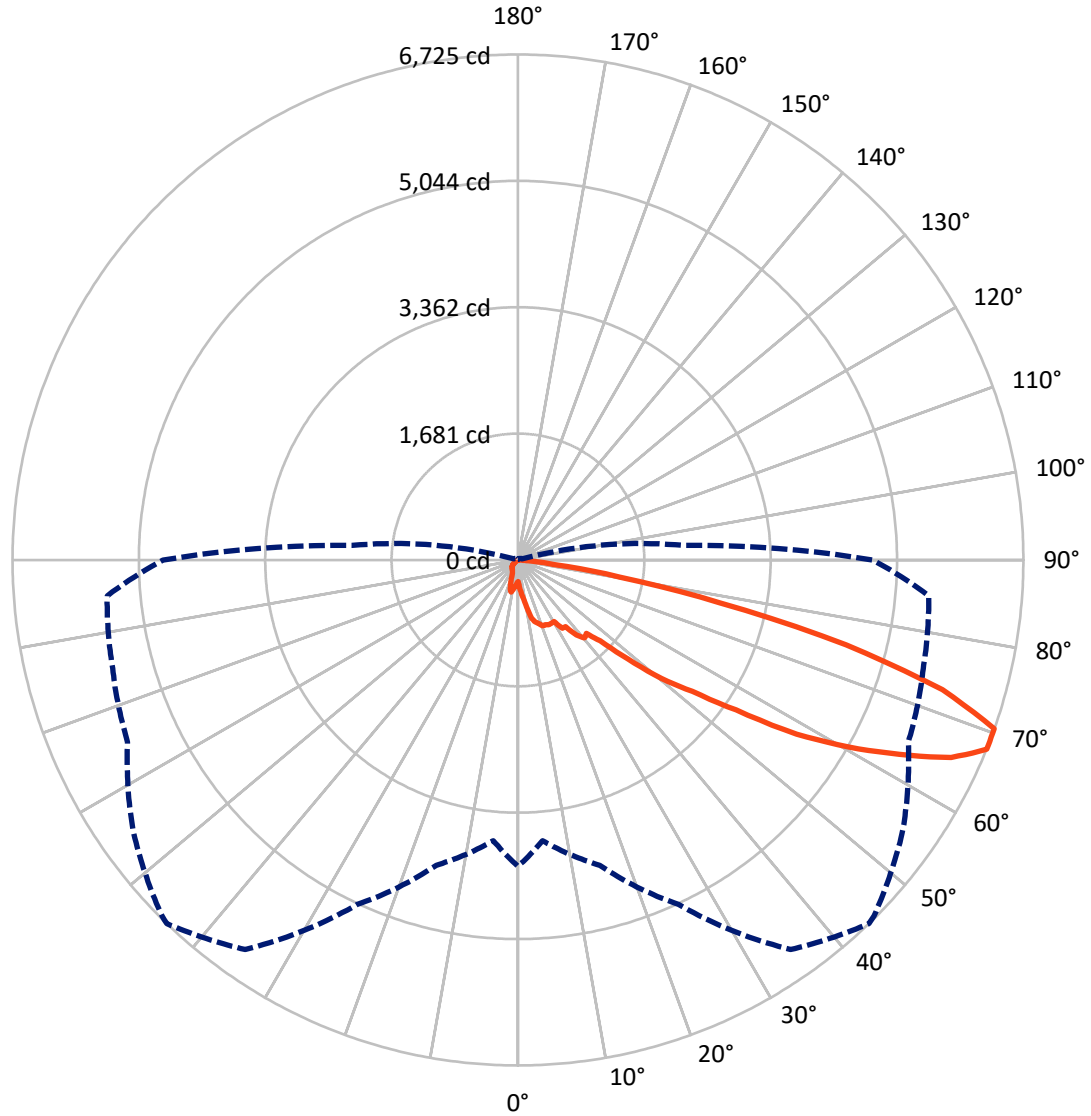
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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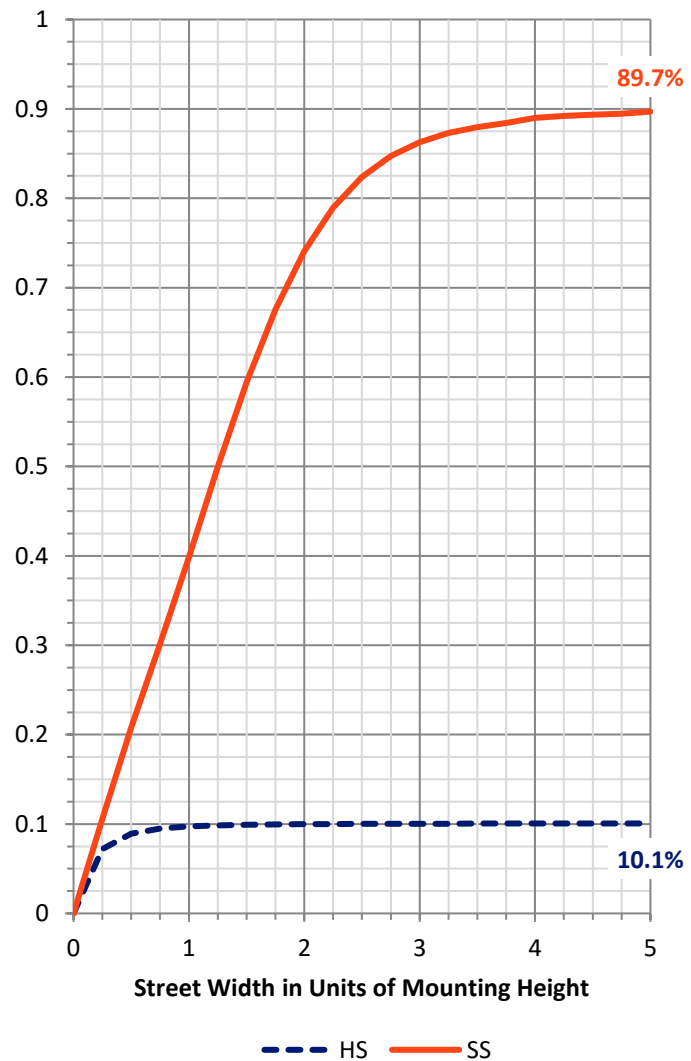
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	860.4	0.0	860.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	7609.6	0.0	7609.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	8470.0	0.0	8470.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	0.5
10°-20°	177.1	2.1
20°-30°	313.7	3.7
30°-40°	509.9	6.0
40°-50°	1020.3	12.0
50°-60°	2093.2	24.7
60°-70°	2875.5	33.9
70°-80°	1351.5	16.0
80°-90°	86.6	1.0
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°	8470.0	100.0
0°-180°	8470.0	100.0



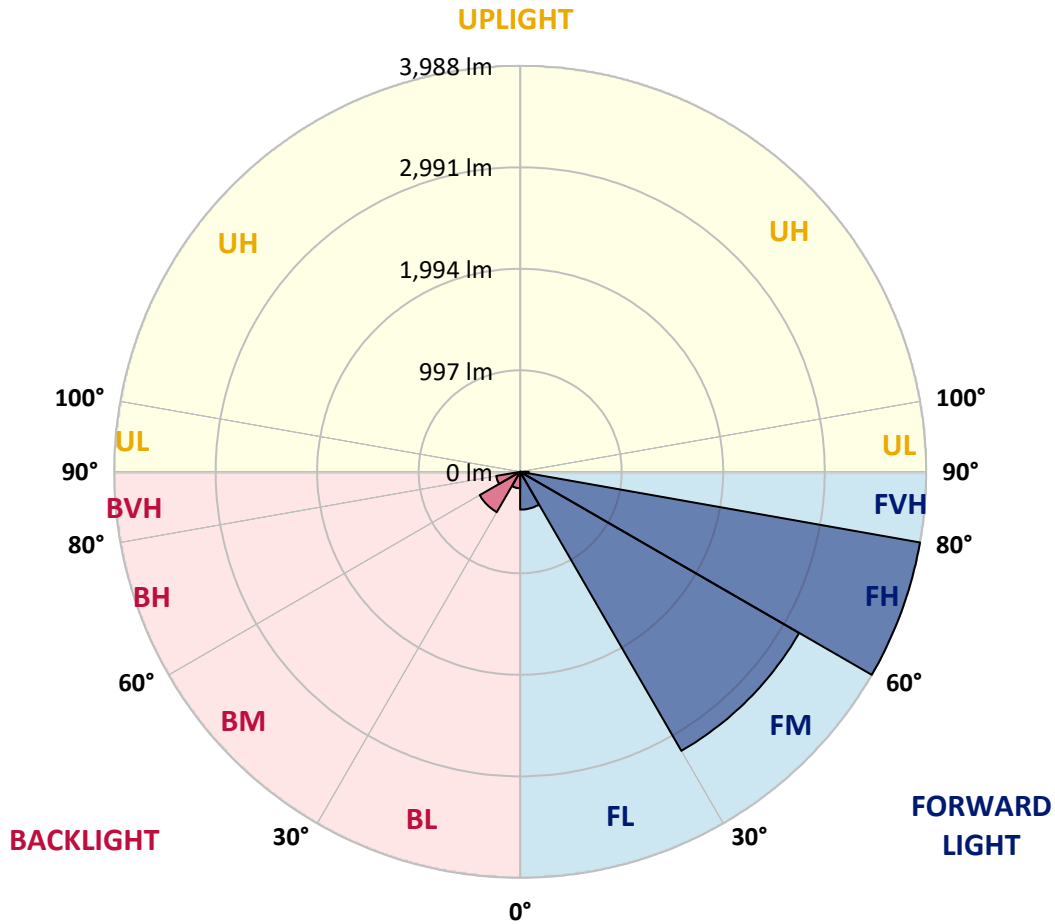
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.5	4.4			
FM (30°-60°)	3165.1	37.4			
FH (60°-80°)	3988.2	47.1			G2/5000
FVH (80°-90°)	84.8	1.0			G1/100
BL (0°-30°)	161.5	1.9	B1/500		
BM (30°-60°)	458.3	5.4	B1/1000		
BH (60°-80°)	238.8	2.8	B1/500		G1/500
BVH (80°-90°)	1.8	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4
2.5°	362.9	351.2	334.4	338.1	340.0	345.2	345.6	339.1	320.4	315.3	338.1
5°	508.6	480.1	475.0	464.3	442.8	431.1	428.3	440.0	425.0	420.4	426.4
7.5°	649.7	625.4	598.8	584.3	539.4	511.9	510.5	515.2	518.0	501.6	510.0
10°	743.6	716.9	711.3	677.2	638.5	631.9	629.1	611.4	596.9	584.8	544.1
12.5°	828.6	828.1	838.4	789.3	783.3	789.8	787.5	723.9	709.5	658.5	646.9
15°	941.6	969.6	925.2	884.1	831.8	854.2	848.2	807.5	797.7	763.2	713.2
17.5°	1058.8	1066.3	992.0	929.0	915.4	886.0	892.1	877.6	828.1	855.6	806.1
20°	1061.6	1078.0	998.6	894.4	936.0	934.6	935.0	921.0	855.6	920.1	874.8
22.5°	1100.9	1060.7	986.9	920.6	928.0	935.0	942.5	925.2	911.2	927.1	935.5
25°	1085.0	1069.1	998.1	954.2	947.2	952.8	954.7	976.6	967.7	1006.0	985.0
27.5°	1126.1	1103.2	976.1	984.1	959.3	952.8	941.6	1014.9	1041.1	1010.7	1066.8
30°	1196.6	1193.3	1014.0	1025.7	1006.5	949.1	978.9	1074.7	1107.4	1088.7	1156.9
32.5°	1306.8	1318.0	1124.7	1049.0	1058.8	1084.5	1073.3	1074.7	1157.4	1198.9	1253.1
35°	1463.3	1457.2	1232.6	1137.7	1086.4	1090.6	1106.5	1182.6	1289.5	1286.7	1344.2
37.5°	1770.6	1704.3	1423.6	1228.4	1243.8	1264.8	1253.1	1355.4	1365.7	1369.4	1506.7
40°	2223.7	2135.4	1724.8	1419.4	1270.9	1363.8	1358.2	1383.4	1452.1	1477.8	1678.1
42.5°	2820.5	2701.9	2254.9	1770.6	1401.6	1337.6	1372.2	1419.8	1650.6	1723.9	1943.4
45°	3480.0	3240.0	2783.7	2271.3	1729.5	1531.0	1557.2	1645.9	1965.8	2087.3	2329.7
47.5°	3907.4	3696.3	3307.2	2715.0	2071.4	1967.2	1969.6	1988.7	2336.2	2561.3	2886.4
50°	4278.7	4054.0	3693.0	3178.8	2676.2	2479.1	2434.3	2346.0	2807.9	3115.7	3476.3
52.5°	4802.7	4540.2	4078.8	3722.9	3366.1	2901.8	2885.9	2915.8	3364.2	3687.9	4081.1
55°	5275.4	4956.4	4516.0	4291.8	4152.6	3523.0	3536.5	3586.5	4078.3	4249.7	4619.2
57.5°	5484.2	5138.5	4912.0	4811.1	4736.9	4371.6	4325.9	4296.0	4641.6	4707.0	5182.9
60°	5621.0	5292.2	5189.5	5212.8	5437.9	5050.3	5008.7	4835.0	5107.7	5161.4	5688.3
62.5°	5534.6	5234.8	5256.7	5451.5	5951.2	5696.2	5576.2	5285.7	5488.8	5532.3	6051.2
65°	4990.5	4678.0	4960.1	5431.4	6342.6	6336.5	6281.0	5701.8	5699.9	5755.5	6079.2
67.5°	4076.5	3748.6	4204.9	5054.9	6326.3	6724.7	6698.5	6253.9	5730.3	5581.8	5486.0
70°	2834.1	2549.7	3067.2	4174.5	5762.5	6721.9	6679.8	6624.7	5490.2	4804.6	4253.5
72.5°	1472.6	1316.2	1798.2	2876.6	4593.5	5905.9	6044.6	5954.0	4687.8	3490.8	2504.8
75°	500.2	448.8	741.7	1526.8	3053.6	4509.9	4672.4	4580.4	3183.9	1872.9	990.6
77.5°	193.8	180.3	265.8	619.8	1531.9	2748.2	2924.7	2830.8	1707.6	686.1	233.1
80°	110.2	106.5	146.7	279.3	675.4	1367.1	1491.3	1352.6	615.6	231.2	60.7
82.5°	46.7	48.1	81.7	150.9	339.5	482.5	538.0	490.9	257.8	158.3	22.4
85°	10.3	12.6	38.8	84.1	142.5	137.8	144.3	160.2	158.3	116.3	9.8
87.5°	0.0	0.0	12.1	22.9	34.1	22.4	17.7	31.3	48.6	46.7	4.2
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°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4
2.5°	342.4	337.7	308.3	306.4	308.3	303.1	302.7	291.9	292.8	317.1	319.0
5°	426.4	403.1	377.8	369.9	362.4	345.6	355.0	355.0	355.0	370.4	375.0
7.5°	502.6	471.3	435.8	405.9	376.9	355.9	370.4	380.7	386.7	406.8	416.1
10°	537.1	506.3	474.5	432.0	409.6	401.7	384.9	376.0	386.7	382.5	387.7
12.5°	610.9	582.9	528.2	484.3	467.5	440.4	390.9	356.4	333.5	329.7	328.8
15°	682.8	665.6	592.2	533.4	475.0	412.4	327.9	282.1	257.8	253.6	254.1
17.5°	773.9	749.2	641.3	556.7	457.7	345.2	253.1	213.9	212.0	222.3	223.3
20°	834.6	794.0	666.0	537.6	400.7	261.1	198.0	188.7	203.6	222.3	220.5
22.5°	892.5	848.6	698.7	520.8	310.6	198.0	182.2	183.1	195.7	215.8	220.9
25°	930.8	915.0	738.9	481.5	236.8	171.4	174.2	181.2	192.0	211.1	211.1
27.5°	1046.2	971.9	734.2	405.4	182.2	159.7	166.3	175.1	180.8	203.6	206.0
30°	1116.3	1092.0	758.5	327.9	159.7	144.8	157.4	165.3	169.1	195.2	196.2
32.5°	1202.2	1148.5	787.9	241.9	148.5	143.9	141.1	147.1	157.9	180.8	182.2
35°	1306.8	1290.9	745.9	190.1	144.8	134.5	128.9	132.2	139.2	154.6	157.9
37.5°	1520.3	1425.9	720.7	163.0	144.8	131.2	125.2	116.8	117.7	128.4	134.5
40°	1700.1	1671.1	650.1	158.3	138.2	126.6	111.6	101.4	94.3	97.6	99.9
42.5°	2030.3	1896.2	559.1	156.0	132.2	114.4	94.8	84.1	73.3	74.3	78.0
45°	2431.0	2141.9	477.8	153.7	128.0	102.3	79.9	67.3	56.0	56.5	60.3
47.5°	2966.3	2500.1	379.2	146.7	120.5	91.1	64.5	51.4	44.8	46.2	49.5
50°	3574.4	2814.5	299.8	135.9	111.6	80.3	52.3	41.6	39.2	40.6	44.4
52.5°	4117.6	3046.1	247.5	126.1	99.0	65.4	43.9	36.9	36.0	36.9	39.7
55°	4600.5	3180.6	206.9	114.9	85.0	52.8	39.7	34.1	33.6	33.2	35.0
57.5°	5053.5	3219.4	161.6	97.1	69.1	45.8	36.9	31.8	30.8	29.4	30.8
60°	5383.7	3153.1	118.6	78.0	56.5	41.6	34.6	28.5	27.1	24.8	25.7
62.5°	5543.0	2971.4	89.7	62.6	48.1	37.8	30.8	24.8	22.9	20.1	20.6
65°	5391.7	2672.0	70.5	52.8	41.1	31.8	26.2	21.0	18.7	15.9	15.9
67.5°	4721.5	2216.6	59.8	45.8	34.6	27.1	21.5	19.1	15.4	13.1	12.6
70°	3465.6	1594.5	51.4	40.2	29.9	23.4	18.2	17.3	14.9	12.6	11.7
72.5°	1956.0	902.4	43.9	35.5	25.2	19.6	15.4	15.9	14.5	11.7	10.7
75°	746.4	304.1	36.4	29.4	20.6	14.9	13.1	13.1	13.1	9.8	8.4
77.5°	185.0	77.5	29.0	23.8	16.3	9.8	10.7	11.2	11.2	8.4	6.1
80°	50.9	26.2	17.3	17.3	11.7	5.6	7.5	7.5	6.1	2.8	0.0
82.5°	18.7	9.8	6.1	7.5	5.1	1.9	2.8	1.9	1.4	0.0	0.0
85°	7.9	5.1	3.7	4.2	2.3	0.0	0.5	0.9	0.0	0.0	0.0
87.5°	3.3	2.3	1.9	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)