

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: STREETWORKS

Report Number: P368705

Luminaire Tested: **PMM-SA4D-830-U-T3-HSS**

Issue Date: 12/2/2019

Report Generated By 670245982

**Test Information**

Test Method: LM-79-08  
Report Number: P368705  
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: STREETWORKS  
Catalog Number: PMM-SA4D-830-U-T3-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

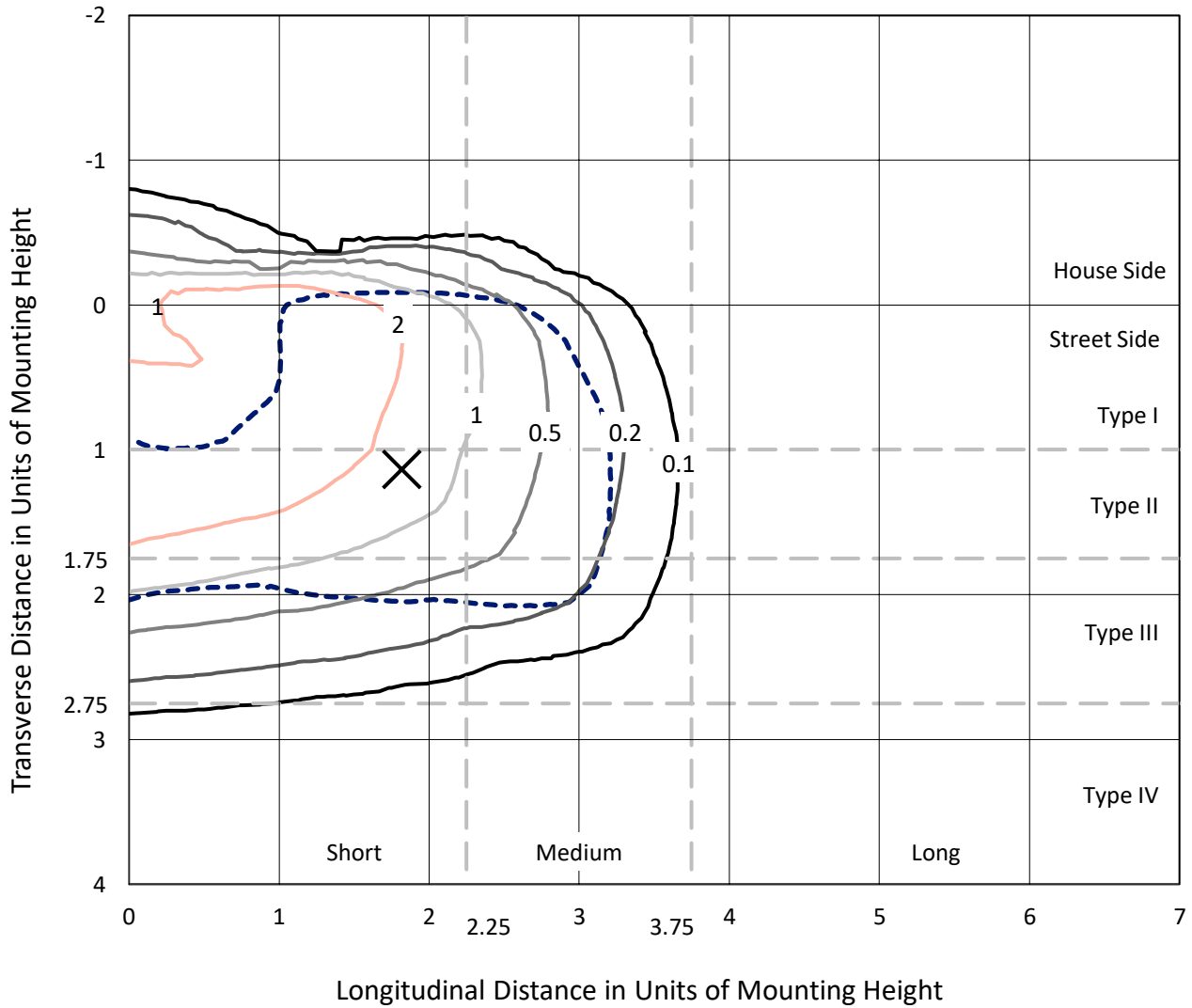
Lumens per Lamp: N/A  
Luminaire Lumens: 15438 lumens  
Efficiency: N/A  
Efficacy: 59.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 259  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

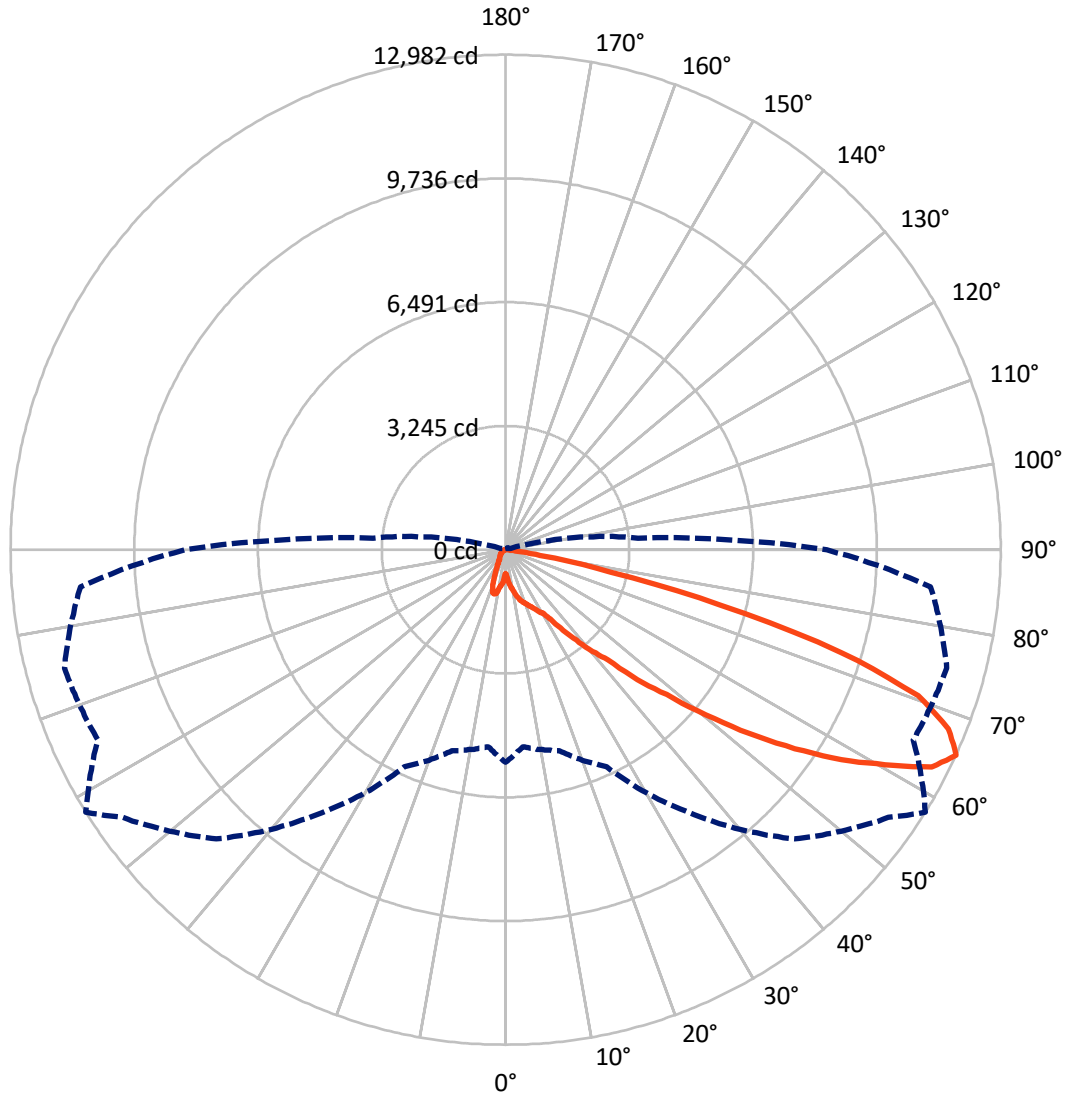
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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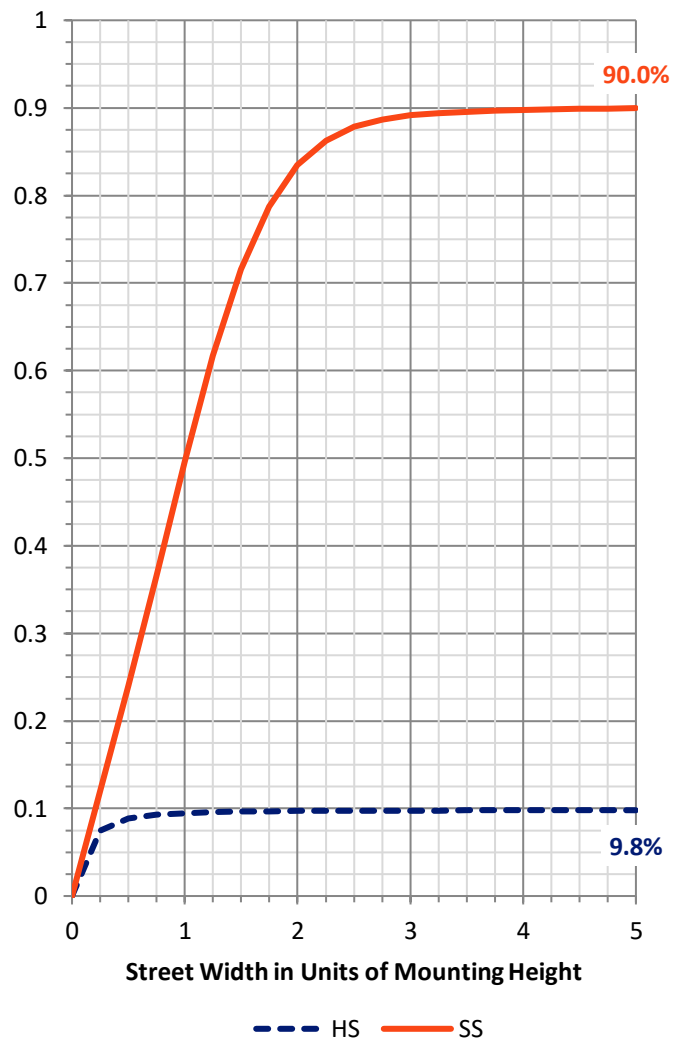
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1523.3	0.0	1523.3
	% Fixture	9.9	0.0	9.9
<b>Street Side</b>	Lumens	13914.7	0.0	13914.7
	% Fixture	90.1	0.0	90.1
<b>Total</b>	Lumens	15438.0	0.0	15438.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.8	0.6
10°-20°	316.9	2.1
20°-30°	613.4	4.0
30°-40°	1223.8	7.9
40°-50°	2501.9	16.2
50°-60°	4437.7	28.7
60°-70°	4678.5	30.3
70°-80°	1516.8	9.8
80°-90°	62.0	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°	15438.0	100.0
0°-180°	15438.0	100.0

**Coefficient of Utilization**

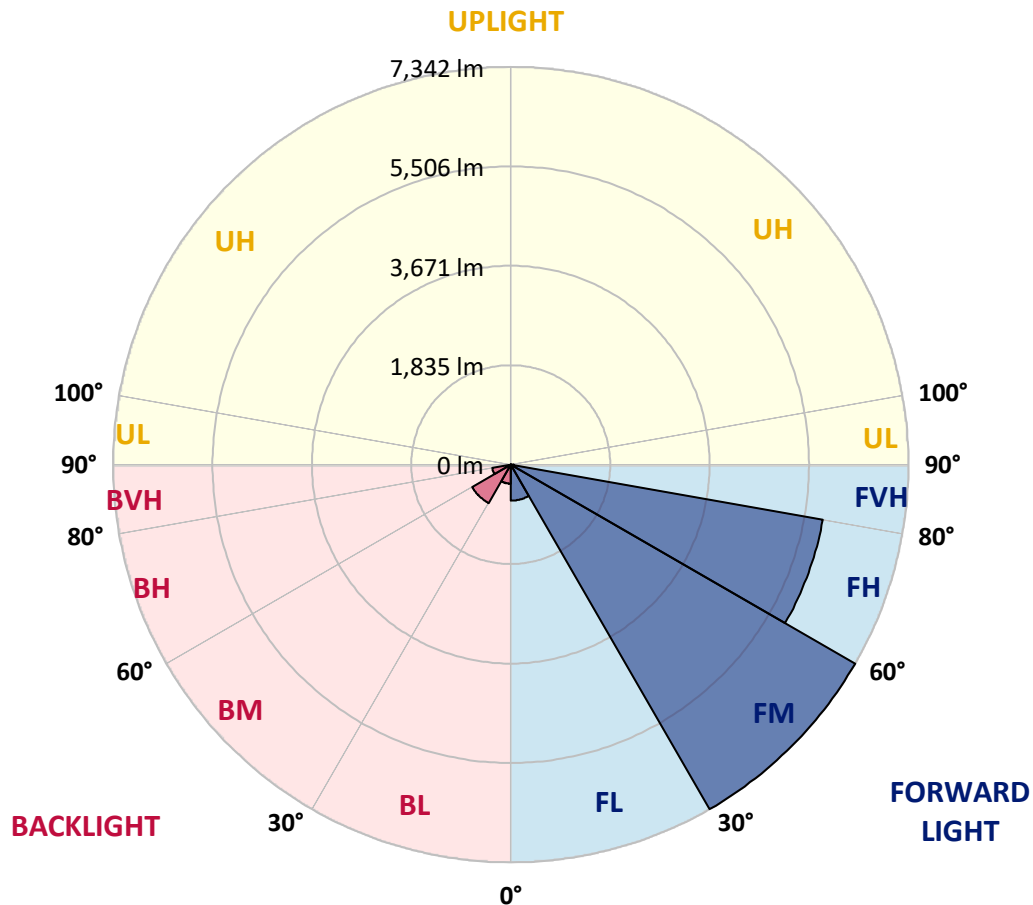


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.0	4.3			
FM (30°-60°)	7341.6	47.6			
FH (60°-80°)	5847.7	37.9			G3/7500
FVH (80°-90°)	59.4	0.4			G1/100
BL (0°-30°)	351.1	2.3	B1/500		
BM (30°-60°)	821.9	5.3	B1/1000		
BH (60°-80°)	347.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
2.5°	754.5	731.9	696.2	702.3	709.3	723.2	711.9	701.5	690.2	675.4	731.9
5°	910.9	873.6	870.1	862.3	856.2	855.3	869.2	864.9	870.9	898.8	927.4
7.5°	968.3	952.7	923.1	935.3	916.1	901.4	963.1	983.1	1021.3	1034.4	1109.1
10°	962.2	939.6	951.8	957.9	970.9	1024.8	1063.9	1085.6	1118.7	1189.9	1175.2
12.5°	990.0	1010.0	1023.1	1023.9	1090.9	1189.9	1217.8	1236.0	1295.1	1322.9	1395.9
15°	1083.0	1116.1	1095.2	1103.9	1125.6	1246.4	1311.6	1351.6	1435.1	1525.5	1543.7
17.5°	1216.0	1236.9	1193.4	1162.1	1222.1	1288.2	1406.4	1448.1	1501.1	1712.3	1751.5
20°	1383.8	1419.4	1325.5	1201.2	1280.3	1358.6	1487.2	1507.2	1563.7	1839.2	1901.0
22.5°	1775.8	1722.8	1579.4	1385.5	1362.0	1396.8	1519.4	1597.6	1693.2	1910.5	2053.9
25°	2162.6	2144.3	1933.1	1716.7	1560.2	1482.0	1644.5	1688.0	1844.5	2080.0	2159.1
27.5°	2592.8	2629.4	2276.5	2145.2	1838.4	1582.8	1722.8	1831.4	2016.6	2141.7	2332.1
30°	3160.4	3102.2	2688.5	2557.2	2206.9	1860.1	1925.3	1932.2	2204.3	2345.1	2525.9
32.5°	3605.5	3642.9	3123.1	2921.4	2641.5	2286.9	2077.4	2167.8	2362.5	2676.3	2847.5
35°	4087.0	4083.5	3576.8	3305.6	2939.7	2635.4	2528.5	2594.6	2838.8	3194.3	3239.5
37.5°	4806.7	4745.0	4147.0	3749.8	3438.6	3178.7	3097.0	3009.2	3261.3	3600.3	3769.8
40°	5485.6	5272.6	4719.8	4248.7	3850.6	3744.5	3449.0	3502.9	3577.7	4025.3	4493.8
42.5°	6171.4	6039.3	5300.4	4905.8	4416.4	4164.4	3971.4	3946.2	4301.7	4831.9	5316.1
45°	7076.2	6672.0	6081.0	5734.2	5167.4	4914.5	4758.9	4851.9	5171.8	5946.3	6268.7
47.5°	7835.9	7463.9	6956.3	6429.5	5835.0	6119.2	5827.2	5680.3	6119.2	6919.8	7348.3
50°	8488.7	8074.1	7560.4	7170.1	7073.6	7346.5	6755.5	6809.4	7094.5	8035.0	8276.6
52.5°	8963.3	8526.9	8078.4	7889.8	8285.3	8422.6	8126.2	8007.1	8266.2	8985.9	9103.2
55°	9320.5	8873.7	8523.5	8783.3	9548.3	9503.1	9607.4	9200.6	9448.3	9977.6	9922.0
57.5°	9342.3	8812.9	8607.8	9025.9	10075.9	10775.6	11080.7	10388.8	10529.6	10753.0	10627.8
60°	8659.1	8132.3	8115.8	8709.5	10228.8	11105.0	11772.6	11435.3	11246.7	11412.7	11175.4
62.5°	7297.9	6929.3	7101.4	7757.7	9659.5	10923.3	12141.1	12547.0	11812.5	11849.9	11512.7
65°	5572.5	5185.7	5455.2	6281.8	8414.8	10719.9	12245.4	12981.6	11802.1	11974.2	11189.3
67.5°	3690.7	3466.4	3771.5	4682.4	6690.3	9463.1	12191.5	12525.3	11427.5	11488.3	9988.9
70°	1905.3	1850.5	2097.4	2816.2	4498.2	7270.1	11662.2	11479.6	10666.9	9896.8	7704.7
72.5°	610.2	612.8	850.1	1286.4	2425.1	4426.0	8964.1	9214.5	8535.6	7239.6	4704.2
75°	270.3	266.0	355.5	539.8	1010.9	1984.4	5569.0	5839.3	5314.3	3982.7	1977.4
77.5°	194.7	188.6	227.7	315.5	500.7	672.8	2611.1	2818.0	2409.4	1380.3	452.9
80°	137.3	136.5	165.1	221.6	312.9	299.0	824.9	924.8	740.6	334.6	133.0
82.5°	77.4	80.0	114.7	156.5	190.4	149.5	232.1	255.5	249.5	178.2	58.2
85°	37.4	41.7	74.8	113.0	100.0	58.2	82.6	89.5	104.3	103.4	29.6
87.5°	0.0	0.0	30.4	51.3	26.9	8.7	25.2	28.7	27.8	33.0	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°	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0	618.0
2.5°	743.2	738.0	671.9	677.1	691.9	685.8	691.0	678.9	664.9	721.4	720.6
5°	939.6	900.5	879.6	860.5	864.0	824.9	847.5	857.9	856.2	888.3	897.0
7.5°	1111.7	1059.6	1017.8	977.9	917.0	862.3	896.2	917.9	932.7	988.3	1010.0
10°	1192.6	1150.0	1133.4	1055.2	1011.8	977.9	937.0	907.5	919.6	904.8	919.6
12.5°	1369.9	1341.2	1277.7	1198.6	1146.5	1076.9	924.8	797.9	719.7	720.6	715.4
15°	1531.5	1529.8	1435.1	1303.8	1152.6	954.4	717.1	557.2	483.3	462.4	455.5
17.5°	1742.8	1716.7	1543.7	1349.9	1077.8	738.8	488.5	381.6	374.6	386.8	381.6
20°	1877.5	1839.2	1597.6	1283.0	888.3	499.8	368.5	338.1	359.0	376.4	372.0
22.5°	2012.2	1954.8	1638.5	1201.2	631.9	365.9	332.9	327.7	340.7	362.5	365.9
25°	2086.1	2074.8	1718.4	1048.3	432.9	320.7	320.7	319.0	323.3	339.0	336.4
27.5°	2300.8	2147.8	1658.4	817.9	334.6	294.7	299.0	297.3	281.6	297.3	298.1
30°	2434.7	2364.2	1662.8	582.4	294.7	260.8	272.1	258.2	234.7	247.7	245.1
32.5°	2704.1	2528.5	1649.8	392.9	268.6	248.6	231.2	211.2	193.8	199.0	194.7
35°	3017.9	2884.0	1473.3	315.5	250.3	219.9	192.1	172.1	153.8	158.2	157.3
37.5°	3642.0	3216.9	1327.3	284.2	238.2	201.7	169.5	141.7	132.1	134.7	137.3
40°	4220.0	3772.4	1055.2	270.3	217.3	179.9	139.9	120.0	113.9	115.6	118.2
42.5°	5084.0	4213.9	797.1	256.4	196.4	152.1	116.5	103.4	97.4	100.8	102.6
45°	5920.2	4589.4	595.4	244.2	179.1	131.3	98.2	89.5	82.6	85.2	88.7
47.5°	6755.5	5006.6	444.2	225.1	159.9	113.0	84.3	78.2	73.9	74.8	79.1
50°	7503.0	5201.3	349.4	201.7	144.3	98.2	76.5	70.4	68.7	69.5	73.0
52.5°	8052.3	5203.1	294.7	180.8	129.5	86.9	72.1	65.2	64.3	66.1	69.5
55°	8548.7	5064.0	255.5	162.5	116.5	79.1	68.7	62.6	62.6	64.3	67.8
57.5°	8878.1	4808.5	221.6	143.4	105.2	74.8	66.1	60.0	59.1	58.2	60.8
60°	9038.9	4459.9	187.7	126.0	94.7	72.1	64.3	53.0	52.2	50.4	52.2
62.5°	8937.2	4023.6	157.3	108.7	84.3	68.7	56.5	46.1	44.3	40.9	43.5
65°	8417.4	3493.3	133.0	93.0	73.0	58.2	47.8	39.1	34.8	30.4	29.6
67.5°	7354.4	2838.0	111.3	80.0	62.6	47.8	39.1	34.8	26.9	23.5	22.6
70°	5511.6	1937.5	92.1	68.7	52.2	40.9	33.0	31.3	25.2	22.6	20.9
72.5°	3233.5	1045.7	77.4	60.0	44.3	33.9	26.9	28.7	25.2	20.9	19.1
75°	1291.6	347.7	61.7	47.8	35.6	24.3	22.6	23.5	22.6	19.1	15.6
77.5°	294.7	109.5	47.8	37.4	27.8	15.6	18.3	20.0	20.0	15.6	11.3
80°	92.1	43.5	27.8	23.5	20.0	8.7	13.0	13.9	9.6	4.3	0.0
82.5°	29.6	12.2	9.6	9.6	8.7	1.7	2.6	1.7	0.0	0.0	0.0
85°	11.3	7.8	6.1	6.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	3.5	2.6	3.5	1.7	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)