

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: P367939

Luminaire Tested: **PMM-SA3C-727-U-T4W-HSS**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367939
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: STREETWORKS
Catalog Number: PMM-SA3C-727-U-T4W-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) 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: 11478 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

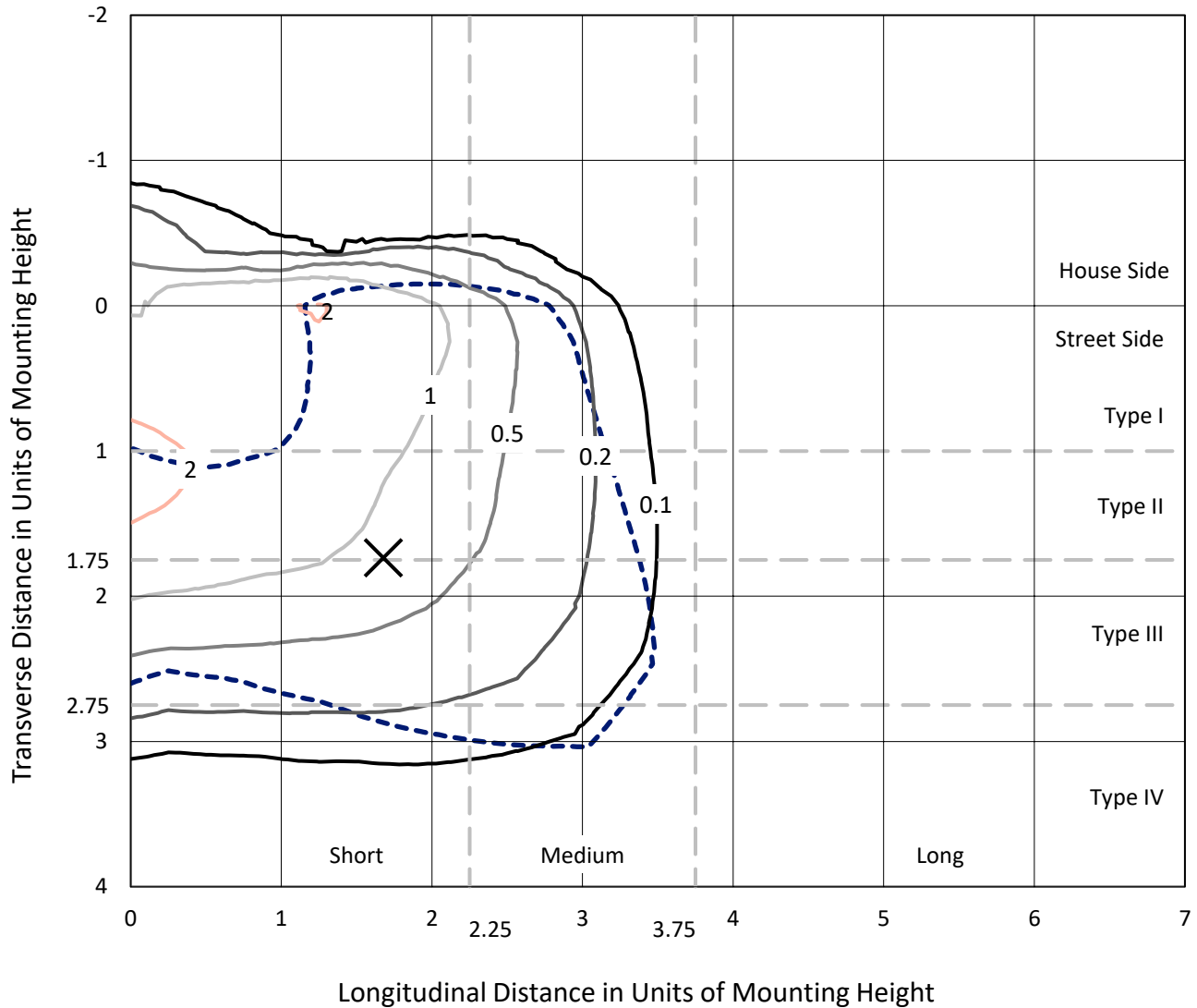
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

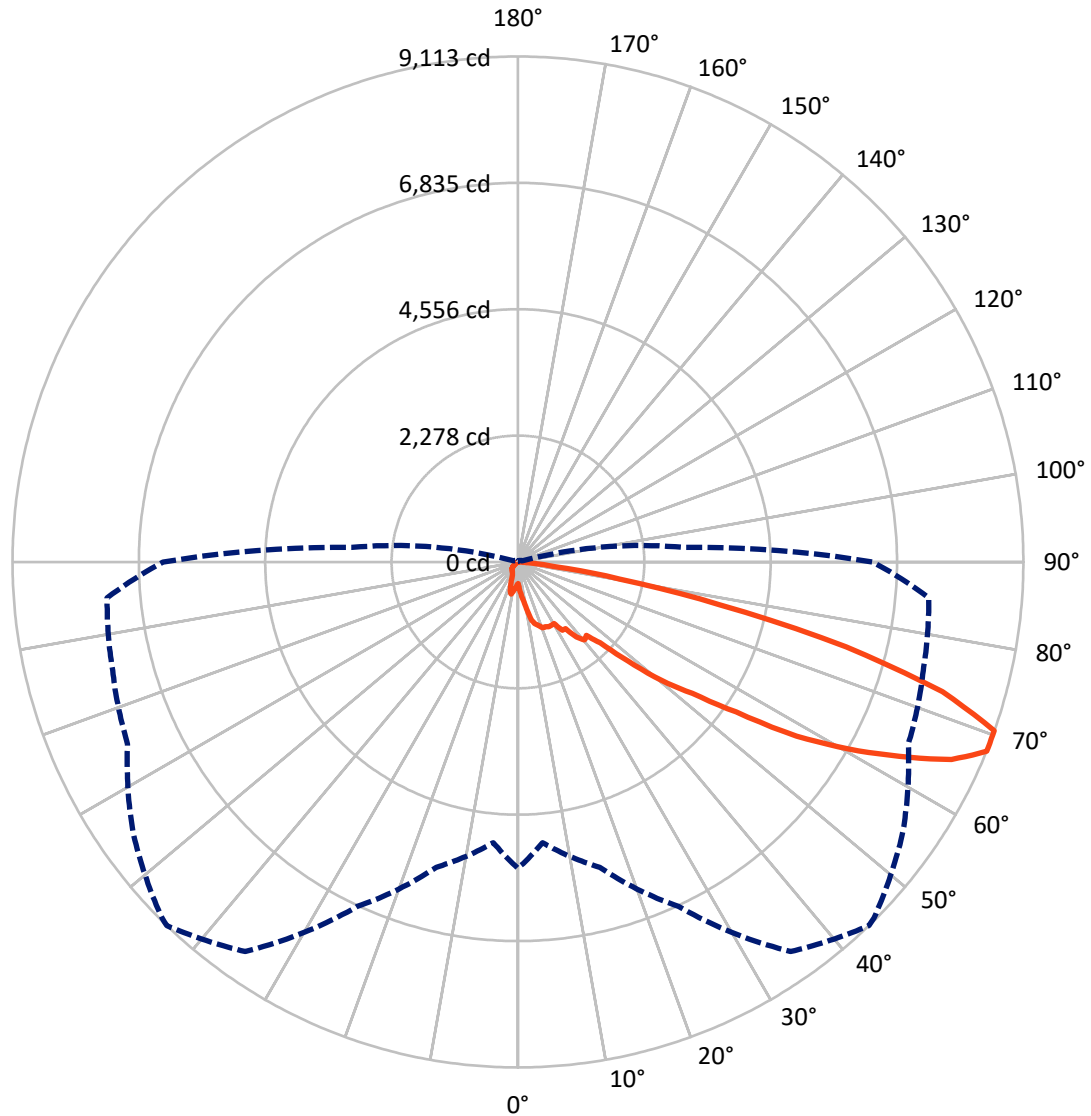
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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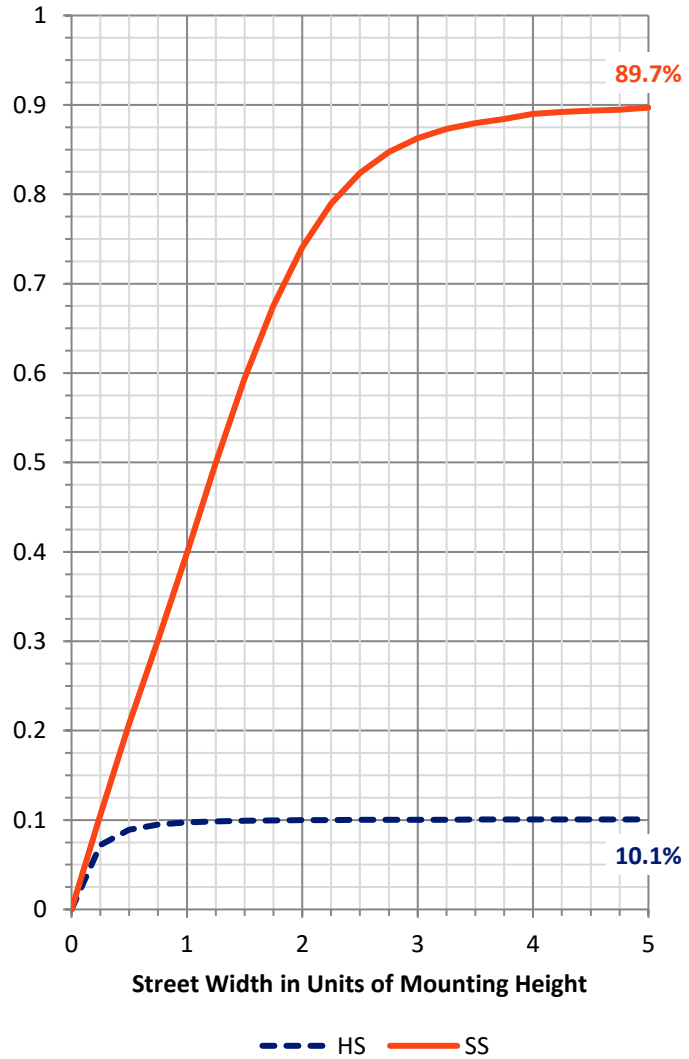
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1165.9	0.0	1165.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	10312.1	0.0	10312.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	11478.0	0.0	11478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	0.5
10°-20°	240.0	2.1
20°-30°	425.1	3.7
30°-40°	691.0	6.0
40°-50°	1382.7	12.0
50°-60°	2836.6	24.7
60°-70°	3896.6	33.9
70°-80°	1831.5	16.0
80°-90°	117.3	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°	11478.0	100.0
0°-180°	11478.0	100.0

Coefficient of Utilization



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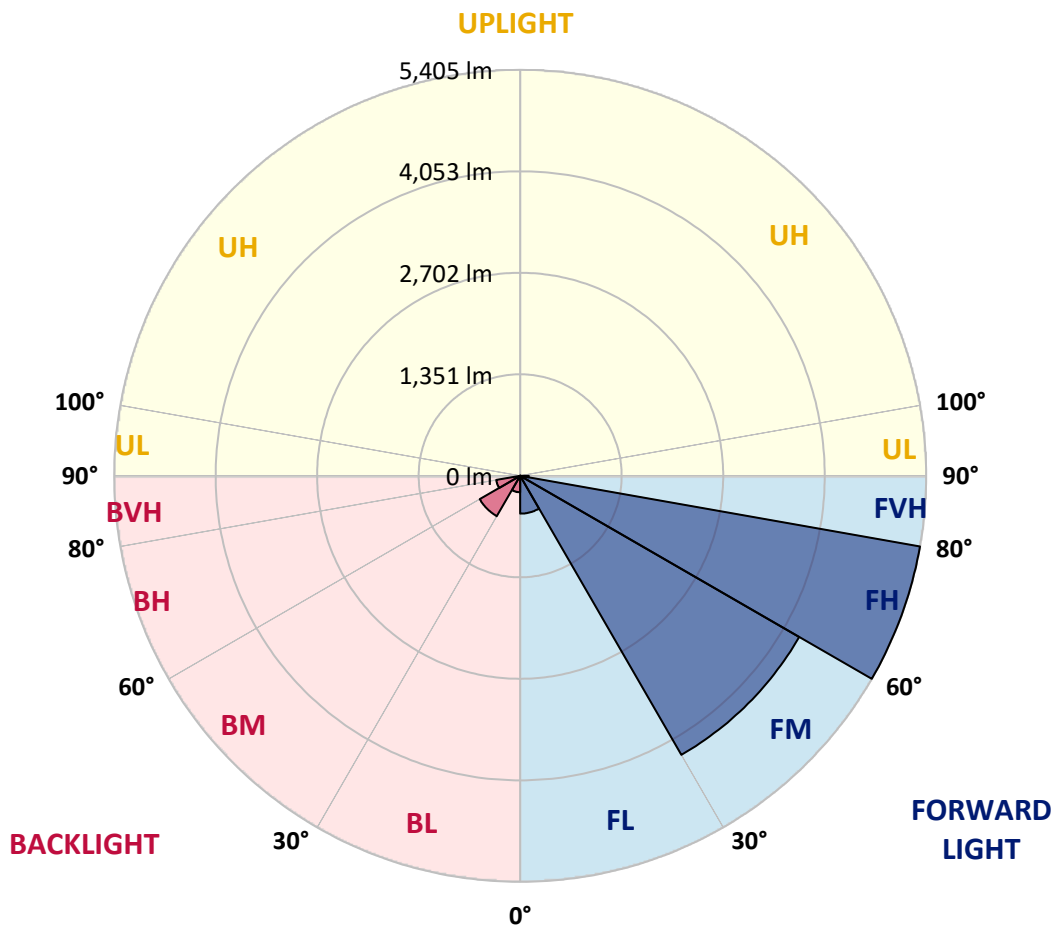
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.5	4.4			
FM (30°-60°)	4289.1	37.4			
FH (60°-80°)	5404.6	47.1			G3/7500
FVH (80°-90°)	114.9	1.0			G2/225
BL (0°-30°)	218.9	1.9	B1/500		
BM (30°-60°)	621.1	5.4	B1/1000		
BH (60°-80°)	323.5	2.8	B1/500		G1/500
BVH (80°-90°)	2.4	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7
2.5°	491.8	476.0	453.2	458.2	460.8	467.7	468.4	459.5	434.2	427.2	458.2
5°	689.3	650.6	643.7	629.1	600.0	584.2	580.4	596.2	576.0	569.6	577.9
7.5°	880.4	847.5	811.4	791.8	731.0	693.7	691.8	698.1	701.9	679.8	691.2
10°	1007.6	971.5	963.9	917.7	865.2	856.3	852.5	828.5	808.9	792.4	737.4
12.5°	1122.8	1122.2	1136.1	1069.6	1061.4	1070.3	1067.1	981.0	961.4	892.4	876.6
15°	1276.0	1313.9	1253.8	1198.1	1127.2	1157.6	1149.4	1094.3	1081.0	1034.2	966.5
17.5°	1434.8	1445.0	1344.3	1258.9	1240.5	1200.7	1208.9	1189.3	1122.2	1159.5	1092.4
20°	1438.6	1460.8	1353.2	1212.0	1268.4	1266.5	1267.1	1248.1	1159.5	1246.9	1185.5
22.5°	1491.8	1437.4	1337.4	1247.5	1257.6	1267.1	1277.2	1253.8	1234.8	1256.4	1267.7
25°	1470.3	1448.8	1352.6	1293.1	1283.6	1291.2	1293.7	1323.4	1311.4	1363.3	1334.8
27.5°	1526.0	1495.0	1322.8	1333.6	1300.0	1291.2	1276.0	1375.3	1410.8	1369.6	1445.6
30°	1621.6	1617.1	1374.1	1389.9	1364.0	1286.1	1326.6	1456.4	1500.7	1475.3	1567.8
32.5°	1770.9	1786.1	1524.1	1421.5	1434.8	1469.6	1454.5	1456.4	1568.4	1624.7	1698.1
35°	1983.0	1974.7	1670.3	1541.8	1472.2	1477.9	1499.4	1602.6	1747.5	1743.7	1821.6
37.5°	2399.4	2309.5	1929.2	1664.6	1685.5	1714.0	1698.1	1836.7	1850.7	1855.7	2041.8
40°	3013.4	2893.7	2337.4	1923.5	1722.2	1848.1	1840.5	1874.7	1967.8	2002.6	2274.1
42.5°	3822.2	3661.5	3055.8	2399.4	1899.4	1812.7	1859.5	1924.1	2236.8	2336.1	2633.6
45°	4715.9	4390.6	3772.2	3077.9	2343.7	2074.7	2110.2	2230.4	2664.0	2828.5	3157.0
47.5°	5295.0	5009.0	4481.7	3679.2	2807.0	2665.9	2669.0	2695.0	3165.9	3471.0	3911.5
50°	5798.2	5493.8	5004.5	4307.7	3626.7	3359.6	3298.8	3179.2	3805.1	4222.2	4710.9
52.5°	6508.4	6152.7	5527.3	5045.0	4561.5	3932.4	3910.8	3951.3	4558.9	4997.6	5530.5
55°	7148.9	6716.6	6119.7	5815.9	5627.3	4774.1	4792.5	4860.2	5526.7	5759.0	6259.6
57.5°	7431.8	6963.4	6656.5	6519.7	6419.1	5924.2	5862.1	5821.6	6290.0	6378.6	7023.6
60°	7617.2	7171.7	7032.4	7064.1	7369.1	6843.8	6787.5	6552.0	6921.7	6994.4	7708.4
62.5°	7500.1	7093.8	7123.6	7387.5	8064.7	7719.1	7556.5	7162.8	7438.1	7497.0	8200.2
65°	6762.8	6339.4	6721.7	7360.3	8595.1	8586.9	8511.6	7726.7	7724.2	7799.5	8238.1
67.5°	5524.2	5079.8	5698.2	6850.1	8573.0	9112.8	9077.4	8474.8	7765.3	7564.1	7434.3
70°	3840.6	3455.1	4156.4	5657.1	7809.0	9109.0	9052.1	8977.4	7440.0	6510.9	5764.0
72.5°	1995.6	1783.6	2436.8	3898.2	6224.8	8003.3	8191.3	8068.5	6352.7	4730.5	3394.4
75°	677.9	608.2	1005.1	2069.0	4138.1	6111.5	6331.8	6207.1	4314.6	2538.0	1342.4
77.5°	262.7	244.3	360.1	839.9	2076.0	3724.1	3963.4	3836.2	2314.0	929.8	315.8
80°	149.4	144.3	198.7	378.5	915.2	1852.6	2020.9	1832.9	834.2	313.3	82.3
82.5°	63.3	65.2	110.8	204.4	460.1	653.8	729.1	665.2	349.4	214.6	30.4
85°	13.9	17.1	52.5	113.9	193.0	186.7	195.6	217.1	214.6	157.6	13.3
87.5°	0.0	0.0	16.5	31.0	46.2	30.4	24.1	42.4	65.8	63.3	5.7
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°	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7
2.5°	463.9	457.6	417.7	415.2	417.7	410.8	410.1	395.6	396.8	429.8	432.3
5°	577.9	546.2	512.0	501.3	491.1	468.4	481.0	481.0	481.0	501.9	508.2
7.5°	681.0	638.6	590.5	550.0	510.8	482.3	501.9	515.8	524.1	551.3	563.9
10°	727.9	686.1	643.1	585.5	555.1	544.3	521.5	509.5	524.1	518.4	525.3
12.5°	827.9	789.9	715.8	656.3	633.6	596.8	529.8	482.9	451.9	446.8	445.6
15°	925.3	901.9	802.5	722.8	643.7	558.9	444.3	382.3	349.4	343.7	344.3
17.5°	1048.8	1015.2	869.0	754.4	620.3	467.7	343.0	289.9	287.3	301.3	302.5
20°	1131.0	1076.0	902.5	728.5	543.0	353.8	268.4	255.7	276.0	301.3	298.7
22.5°	1209.5	1150.0	946.9	705.7	420.9	268.4	246.8	248.1	265.2	292.4	299.4
25°	1261.4	1239.9	1001.3	652.5	320.9	232.3	236.1	245.6	260.1	286.1	286.1
27.5°	1417.7	1317.1	995.0	549.4	246.8	216.5	225.3	237.3	244.9	276.0	279.1
30°	1512.7	1479.8	1027.9	444.3	216.5	196.2	213.3	224.1	229.1	264.6	265.8
32.5°	1629.1	1556.4	1067.7	327.9	201.3	194.9	191.1	199.4	213.9	244.9	246.8
35°	1770.9	1749.4	1010.8	257.6	196.2	182.3	174.7	179.1	188.6	209.5	213.9
37.5°	2060.2	1932.3	976.6	220.9	196.2	177.9	169.6	158.2	159.5	174.1	182.3
40°	2303.8	2264.6	881.0	214.6	187.3	171.5	151.3	137.3	127.9	132.3	135.4
42.5°	2751.3	2569.7	757.6	211.4	179.1	155.1	128.5	113.9	99.4	100.6	105.7
45°	3294.4	2902.6	647.5	208.2	173.4	138.6	108.2	91.1	76.0	76.6	81.6
47.5°	4019.7	3388.0	513.9	198.7	163.3	123.4	87.3	69.6	60.8	62.7	67.1
50°	4843.8	3814.0	406.3	184.2	151.3	108.9	70.9	56.3	53.2	55.1	60.1
52.5°	5579.9	4127.9	335.4	170.9	134.2	88.6	59.5	50.0	48.7	50.0	53.8
55°	6234.3	4310.2	280.4	155.7	115.2	71.5	53.8	46.2	45.6	44.9	47.5
57.5°	6848.2	4362.7	219.0	131.6	93.7	62.0	50.0	43.0	41.8	39.9	41.8
60°	7295.7	4272.9	160.8	105.7	76.6	56.3	46.8	38.6	36.7	33.5	34.8
62.5°	7511.5	4026.7	121.5	84.8	65.2	51.3	41.8	33.5	31.0	27.2	27.8
65°	7306.5	3621.0	95.6	71.5	55.7	43.0	35.4	28.5	25.3	21.5	21.5
67.5°	6398.2	3003.9	81.0	62.0	46.8	36.7	29.1	25.9	20.9	17.7	17.1
70°	4696.3	2160.8	69.6	54.4	40.5	31.6	24.7	23.4	20.3	17.1	15.8
72.5°	2650.7	1222.8	59.5	48.1	34.2	26.6	20.9	21.5	19.6	15.8	14.6
75°	1011.4	412.0	49.4	39.9	27.8	20.3	17.7	17.7	17.7	13.3	11.4
77.5°	250.6	105.1	39.2	32.3	22.2	13.3	14.6	15.2	15.2	11.4	8.2
80°	69.0	35.4	23.4	23.4	15.8	7.6	10.1	10.1	8.2	3.8	0.0
82.5°	25.3	13.3	8.2	10.1	7.0	2.5	3.8	2.5	1.9	0.0	0.0
85°	10.8	7.0	5.1	5.7	3.2	0.0	0.6	1.3	0.0	0.0	0.0
87.5°	4.4	3.2	2.5	2.5	1.3	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)