

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: P368057

Luminaire Tested: **PMM-SA3D-727-U-SL3-HSS**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA3D-727-U-SL3-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13670 lumens  
Efficiency: N/A  
Efficacy: 71.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

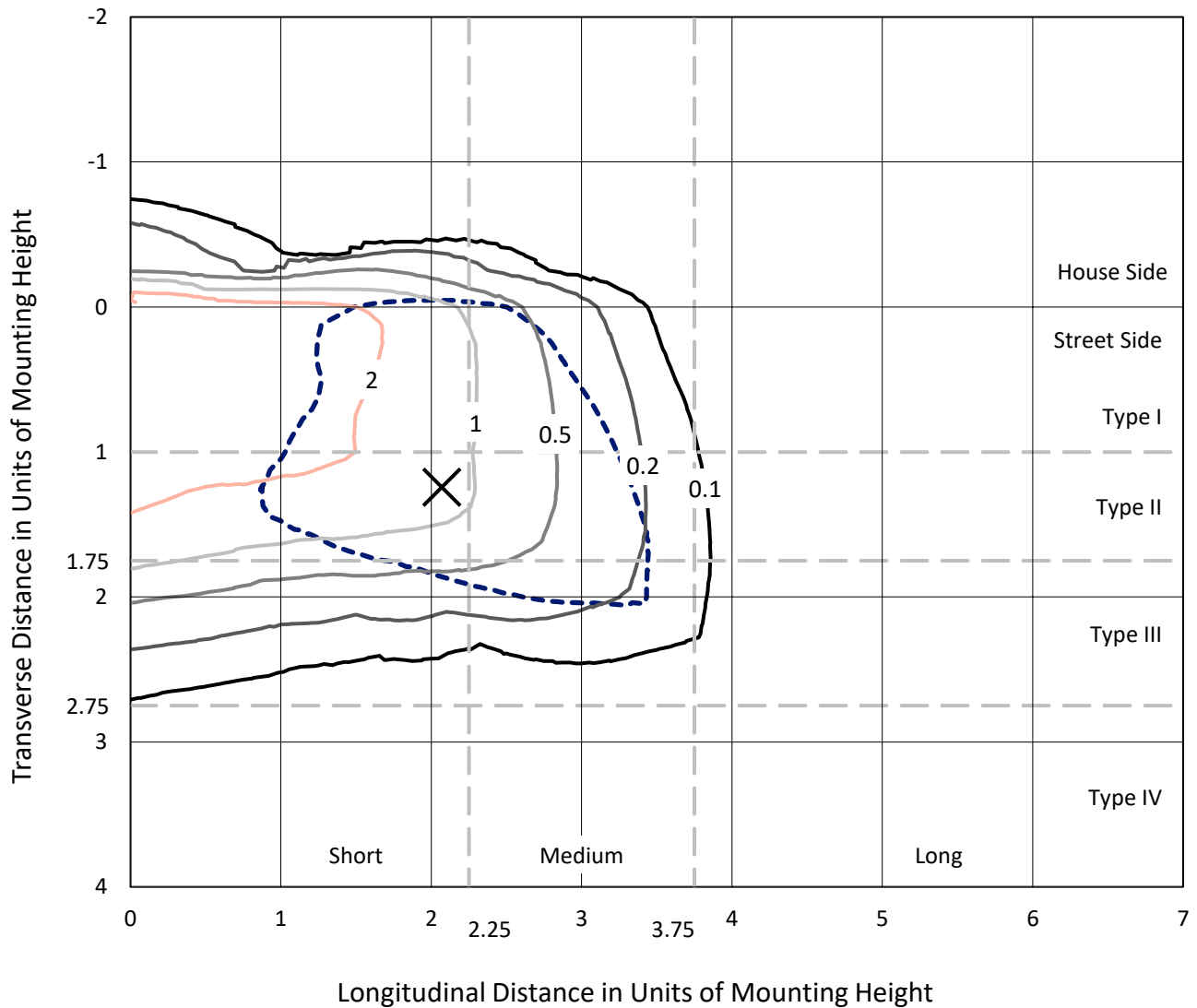
Input Watts (W): 192  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

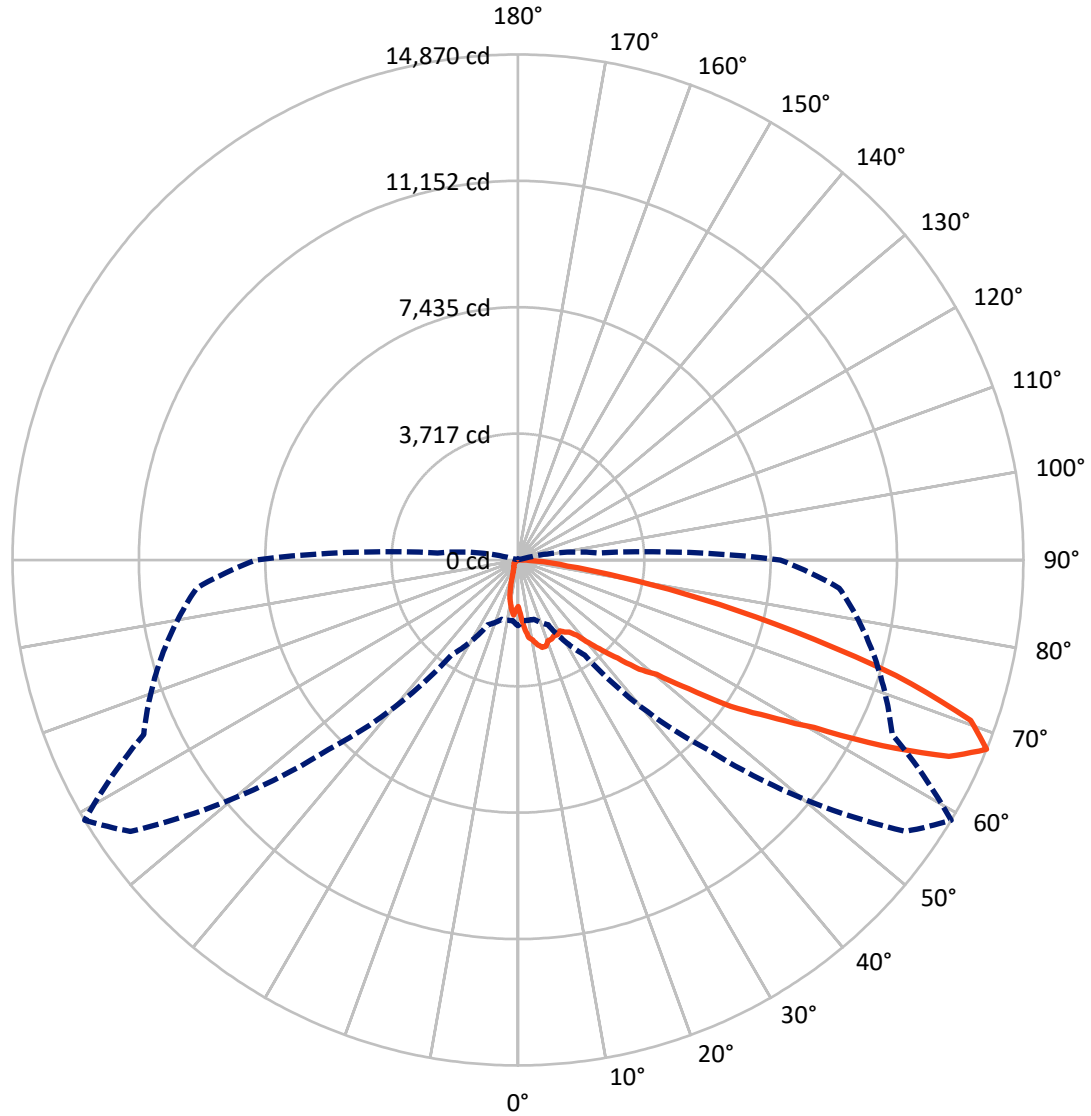
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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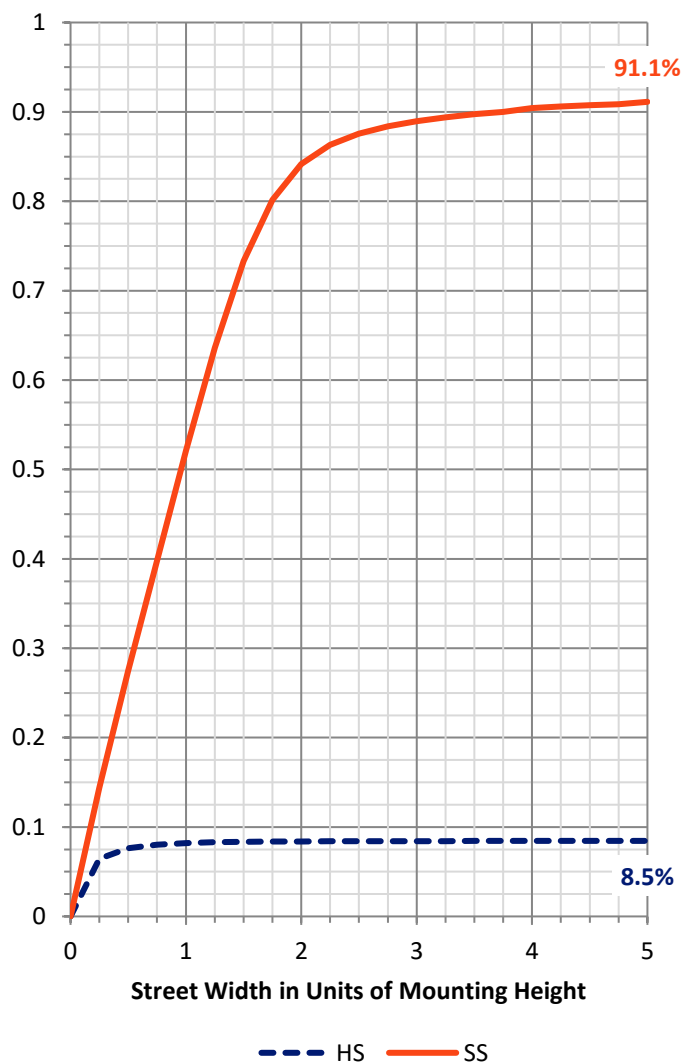
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1162.6	0.0	1162.6
	% Fixture	8.5	0.0	8.5
<b>Street Side</b>	Lumens	12507.5	0.0	12507.5
	% Fixture	91.5	0.0	91.5
<b>Total</b>	Lumens	13670.0	0.0	13670.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.3	1.2
10°-20°	468.3	3.4
20°-30°	696.5	5.1
30°-40°	1074.6	7.9
40°-50°	1917.7	14.0
50°-60°	3412.6	25.0
60°-70°	3974.5	29.1
70°-80°	1767.5	12.9
80°-90°	192.0	1.4
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°	13670.0	100.0
0°-180°	13670.0	100.0

**Coefficient of Utilization**

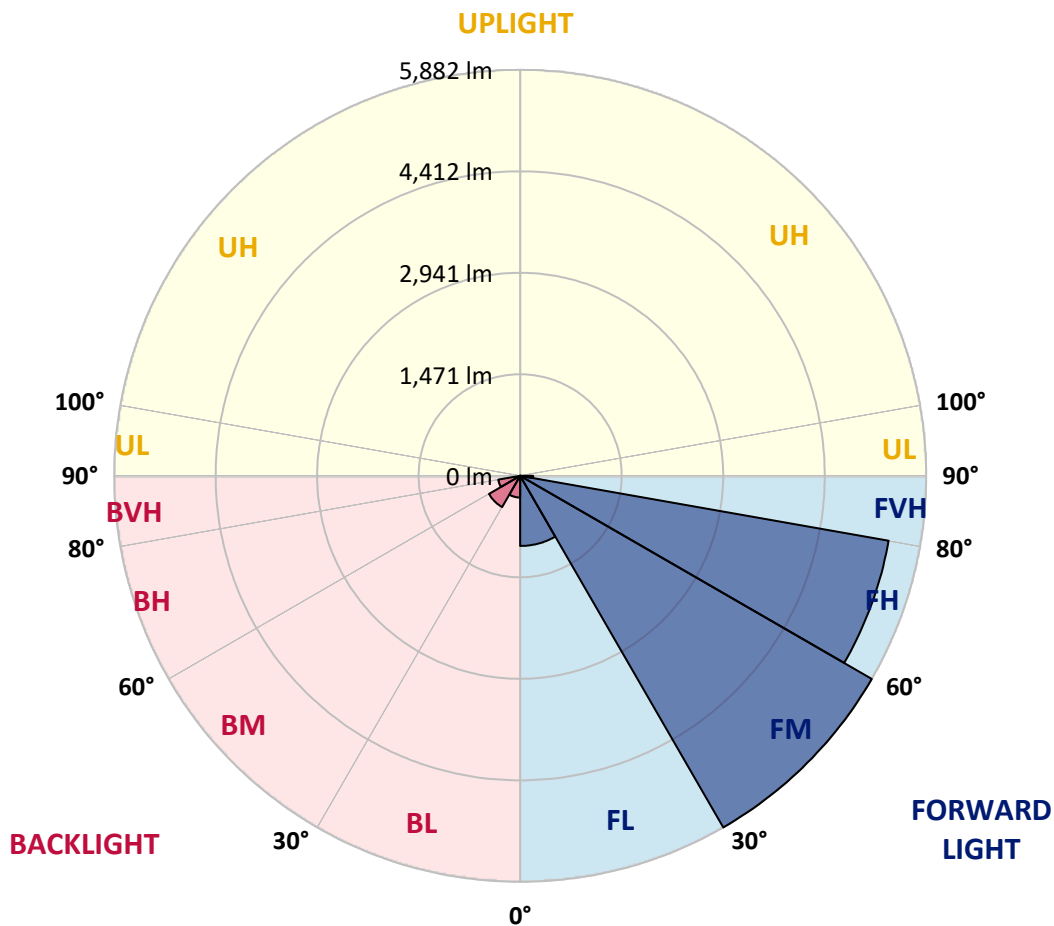


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.7	7.4			
FM (30°-60°)	5882.2	43.0			
FH (60°-80°)	5420.0	39.6			G3/7500
FVH (80°-90°)	188.5	1.4			G2/225
BL (0°-30°)	314.4	2.3	B1/500		
BM (30°-60°)	522.7	3.8	B1/1000		
BH (60°-80°)	322.0	2.4	B1/500		G1/500
BVH (80°-90°)	3.4	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1783.0	1715.9	1620.4	1648.7	1674.4	1698.6	1658.4	1635.6	1624.5	1526.2	1649.4
5°	2189.3	2105.6	2062.0	2050.9	2023.2	1961.6	2064.1	2018.4	2033.6	2053.0	2093.1
7.5°	2313.2	2275.2	2212.2	2235.7	2130.5	2121.5	2263.4	2302.8	2354.8	2319.5	2367.9
10°	2249.6	2183.8	2213.6	2205.3	2201.1	2293.9	2393.5	2395.6	2473.1	2510.5	2346.5
12.5°	2123.6	2131.2	2237.8	2229.5	2367.9	2553.4	2576.3	2552.0	2678.7	2613.6	2588.7
15°	2207.3	2269.6	2210.8	2230.9	2280.0	2511.9	2592.9	2667.6	2787.4	2826.1	2657.9
17.5°	2308.4	2314.6	2207.3	2182.4	2306.3	2414.3	2605.3	2666.9	2678.7	3018.6	2813.7
20°	2253.7	2307.0	2179.0	2021.8	2214.3	2361.0	2554.8	2535.4	2614.3	3075.3	2849.0
22.5°	2399.1	2322.9	2158.9	2040.5	2105.6	2239.2	2403.2	2529.9	2648.2	2939.6	2894.7
25°	2412.9	2385.2	2239.2	2134.0	2122.9	2156.8	2385.2	2466.9	2652.4	3061.5	2855.9
27.5°	2568.6	2536.8	2237.8	2248.2	2144.3	2039.8	2298.0	2489.7	2727.8	2987.4	2938.3
30°	2769.4	2772.1	2386.6	2419.1	2271.0	2102.8	2369.3	2421.9	2779.1	3105.8	2999.2
32.5°	2972.9	3056.6	2680.8	2508.4	2462.0	2341.6	2280.7	2523.7	2723.0	3307.9	3151.4
35°	3282.3	3339.0	2923.0	2768.7	2586.6	2449.6	2521.6	2608.8	2924.4	3575.7	3351.5
37.5°	3806.2	3703.8	3357.7	3089.2	3045.5	2843.4	2879.4	2801.2	3130.0	3891.4	3747.4
40°	4101.1	4008.4	3648.4	3517.6	3239.4	3270.5	3157.0	3202.7	3428.3	4220.2	4108.0
42.5°	4408.4	4319.8	4004.2	3911.5	3646.3	3517.6	3466.4	3630.4	3885.8	4767.7	4625.1
45°	4717.1	4492.2	4358.6	4405.0	4285.9	4031.2	3971.7	4117.7	4385.6	5440.5	5170.5
47.5°	4977.4	4787.7	4687.4	4665.9	4619.5	4973.2	4731.0	4795.4	4913.7	6035.7	5850.2
50°	5446.7	5259.8	5102.7	5059.1	5284.7	5786.5	5412.8	5288.2	5524.9	6754.9	6637.9
52.5°	6124.3	5886.2	5636.3	5637.0	6062.7	6338.2	6515.4	6296.7	6341.0	7546.0	7494.1
55°	6669.1	6366.6	6159.6	6323.0	6957.7	7112.0	7788.3	7596.6	7539.1	8279.7	8216.1
57.5°	6743.8	6381.1	6282.8	6569.4	7438.1	8423.7	9151.2	8672.2	8584.3	8893.7	9020.4
60°	6046.1	5661.3	5735.3	6196.3	7594.5	9223.2	10402.6	10011.5	9453.0	9612.9	9700.1
62.5°	4509.5	4202.2	4409.8	5020.3	6991.6	9758.9	11851.3	12032.7	10460.8	10152.7	10134.1
65°	2925.8	2733.4	2869.7	3370.2	5290.9	9698.0	13145.7	13932.0	11254.7	10593.0	10270.4
67.5°	1935.3	1789.3	1808.6	2104.9	3421.4	7887.3	13919.5	14869.9	12147.6	10842.8	9489.0
70°	1442.5	1327.6	1334.5	1495.1	2030.8	5201.7	12840.4	14130.0	12473.6	9976.9	7658.9
72.5°	1040.3	963.5	1027.9	1206.5	1618.3	2750.7	9570.6	11636.8	10876.8	7869.3	5160.1
75°	720.5	670.0	775.2	1009.2	1477.1	1707.6	6324.4	8376.6	7623.6	4937.2	2332.6
77.5°	399.4	384.2	535.7	822.3	1340.7	1399.6	3874.1	5504.1	4228.5	1769.9	555.1
80°	174.4	168.9	259.6	617.4	1126.9	1264.6	2181.0	3051.8	1663.3	315.6	179.3
82.5°	74.8	72.0	110.7	371.7	818.8	1057.6	1344.9	1468.8	572.4	97.6	101.7
85°	13.2	14.5	44.3	195.9	498.4	537.1	973.9	869.4	287.9	46.4	72.7
87.5°	0.0	0.0	6.9	38.1	93.4	153.7	422.2	304.6	54.7	15.2	12.5
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°	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1666.7	1628.0	1480.6	1461.9	1441.8	1412.0	1401.0	1337.3	1329.0	1410.6	1410.6
5°	2074.4	1936.0	1795.5	1684.7	1585.8	1448.7	1409.9	1369.8	1337.3	1329.0	1354.6
7.5°	2289.7	2120.8	1900.0	1618.3	1389.9	1191.2	1108.2	1050.0	985.0	1004.3	1014.7
10°	2277.9	2098.7	1816.9	1454.9	1201.6	982.2	771.1	647.9	579.3	545.4	541.3
12.5°	2393.5	2224.6	1760.9	1324.8	1001.6	698.4	485.2	397.3	346.8	347.5	343.3
15°	2460.7	2276.5	1695.8	1160.1	705.3	449.2	336.4	317.0	310.1	317.7	313.6
17.5°	2579.0	2331.2	1548.4	914.4	485.2	339.2	309.4	301.8	310.8	326.7	322.6
20°	2570.0	2236.4	1338.7	644.4	358.5	305.2	292.8	281.0	299.7	316.3	313.6
22.5°	2561.7	2143.6	1141.4	475.5	299.7	278.3	267.9	263.0	272.7	292.1	296.2
25°	2488.4	2098.0	941.4	357.2	271.3	252.6	247.8	243.6	247.1	263.0	262.3
27.5°	2578.3	1982.4	726.8	299.7	251.3	229.1	225.0	218.0	211.1	225.0	227.0
30°	2559.6	1998.3	569.7	263.7	231.2	201.4	202.8	188.3	175.8	188.3	188.3
32.5°	2627.5	1882.0	456.1	239.5	211.1	189.7	172.4	157.1	148.1	155.7	157.1
35°	2726.5	1886.9	357.2	224.3	193.8	168.9	148.1	132.9	124.6	128.1	130.1
37.5°	3058.0	1853.6	298.3	212.5	187.6	156.4	135.0	114.9	109.4	113.5	115.6
40°	3274.0	1942.2	263.0	206.3	171.7	144.0	115.6	101.1	96.2	98.3	101.7
42.5°	3681.0	1991.4	245.7	199.3	157.1	123.2	99.0	90.7	83.8	86.5	89.3
45°	4116.3	2075.1	232.6	191.7	146.0	108.0	87.2	80.3	71.3	72.0	74.8
47.5°	4651.4	2274.5	217.3	178.6	130.8	98.3	77.5	67.1	58.8	58.1	61.6
50°	5369.9	2541.0	203.5	162.0	121.1	90.0	67.8	54.7	47.8	45.7	48.5
52.5°	6136.8	2885.7	189.0	150.2	109.4	78.9	58.1	44.3	38.1	36.7	38.8
55°	6896.8	3216.5	175.1	142.6	96.9	67.8	49.1	36.7	31.1	29.8	31.1
57.5°	7762.7	3574.4	157.1	127.4	85.1	58.8	40.8	30.5	25.6	24.2	24.9
60°	8414.7	3700.3	141.9	110.7	74.1	51.9	34.6	24.2	20.8	19.4	20.1
62.5°	8724.1	3494.8	127.4	96.2	65.1	45.0	29.1	20.1	17.3	15.9	15.9
65°	8643.8	3039.3	112.8	82.4	56.1	37.4	22.8	17.3	15.2	13.2	12.5
67.5°	7716.3	2378.3	96.2	69.2	47.1	30.5	19.4	16.6	13.8	12.5	10.4
70°	6119.5	1722.1	78.2	57.5	39.5	24.9	15.2	15.2	13.2	12.5	9.7
72.5°	4011.1	1083.9	63.7	46.4	32.5	19.4	11.8	13.8	12.5	12.5	9.0
75°	1738.0	387.6	51.2	37.4	27.0	13.2	10.4	12.5	13.2	12.5	10.4
77.5°	407.0	120.4	40.1	29.8	22.1	9.0	10.4	12.5	13.2	11.8	9.0
80°	153.0	51.2	26.3	19.4	17.3	5.5	9.0	7.6	6.9	4.8	1.4
82.5°	92.8	21.5	13.8	9.7	8.3	1.4	4.2	2.8	1.4	1.4	0.0
85°	65.8	10.4	7.6	6.9	4.2	0.0	0.7	0.0	0.0	0.7	0.0
87.5°	9.0	2.8	3.5	3.5	2.8	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)