

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: P368318

Luminaire Tested: **PMM-SA4B-727-U-RW**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-7)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4B-727-U-RW
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16687 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

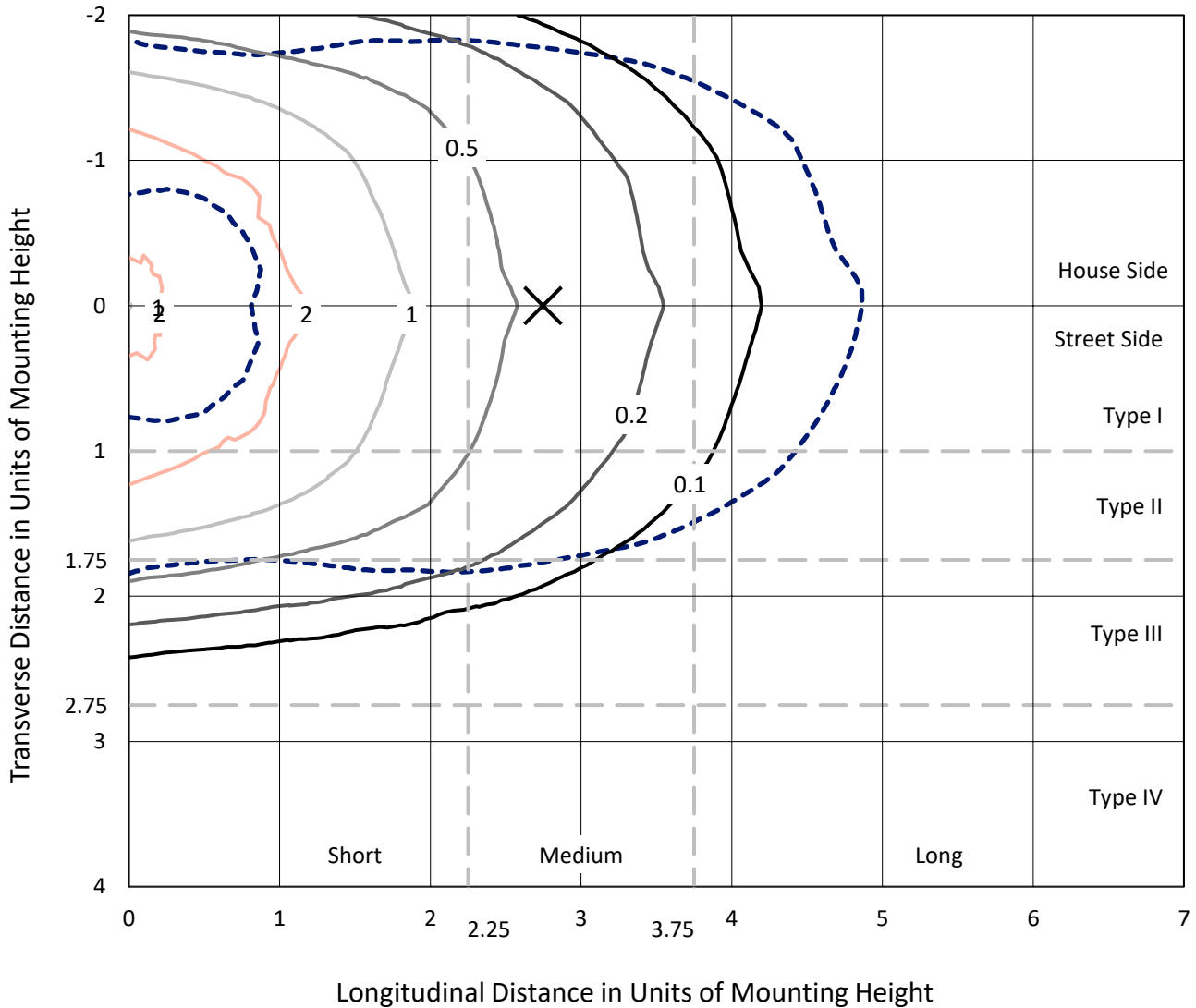
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

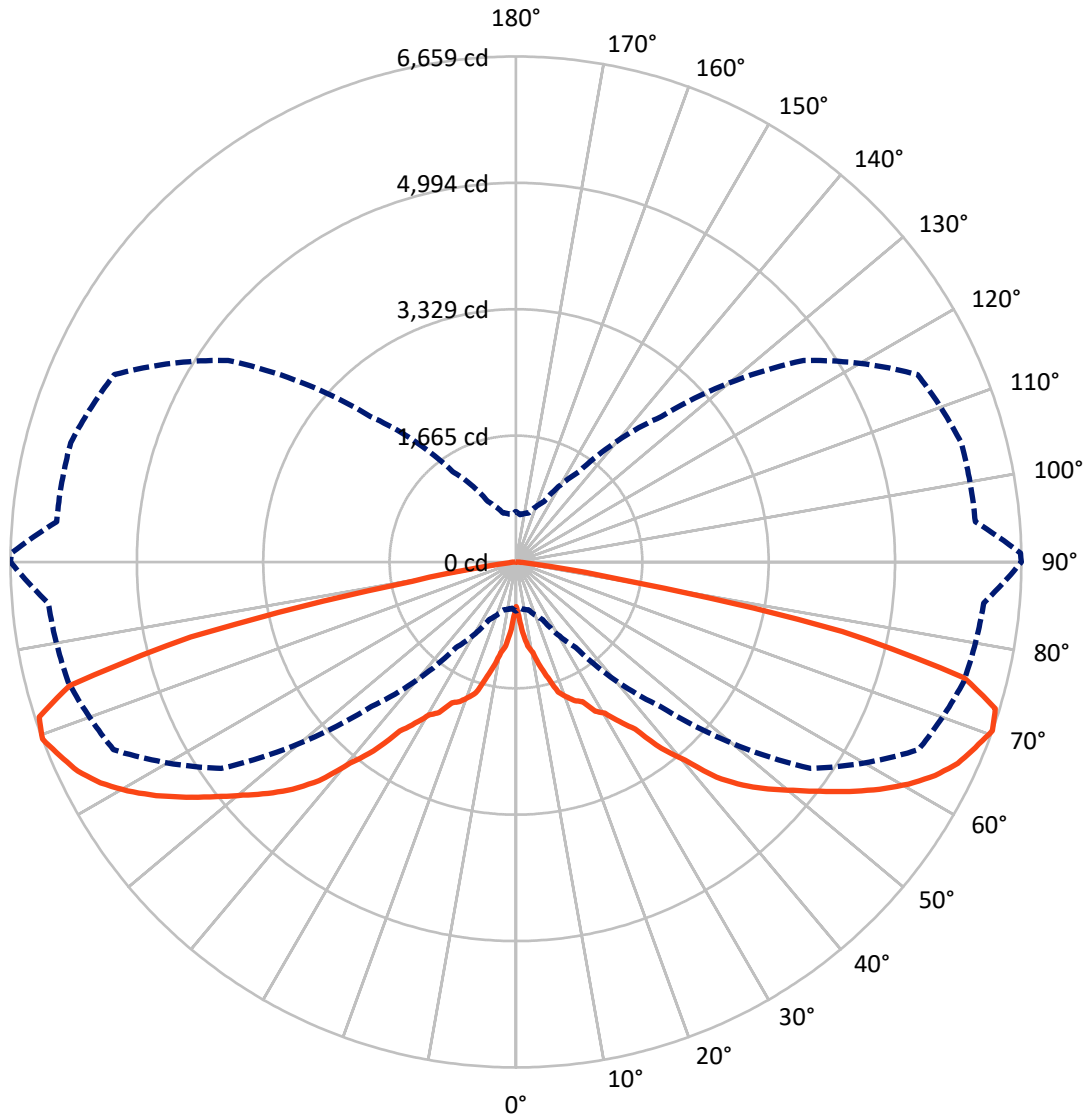
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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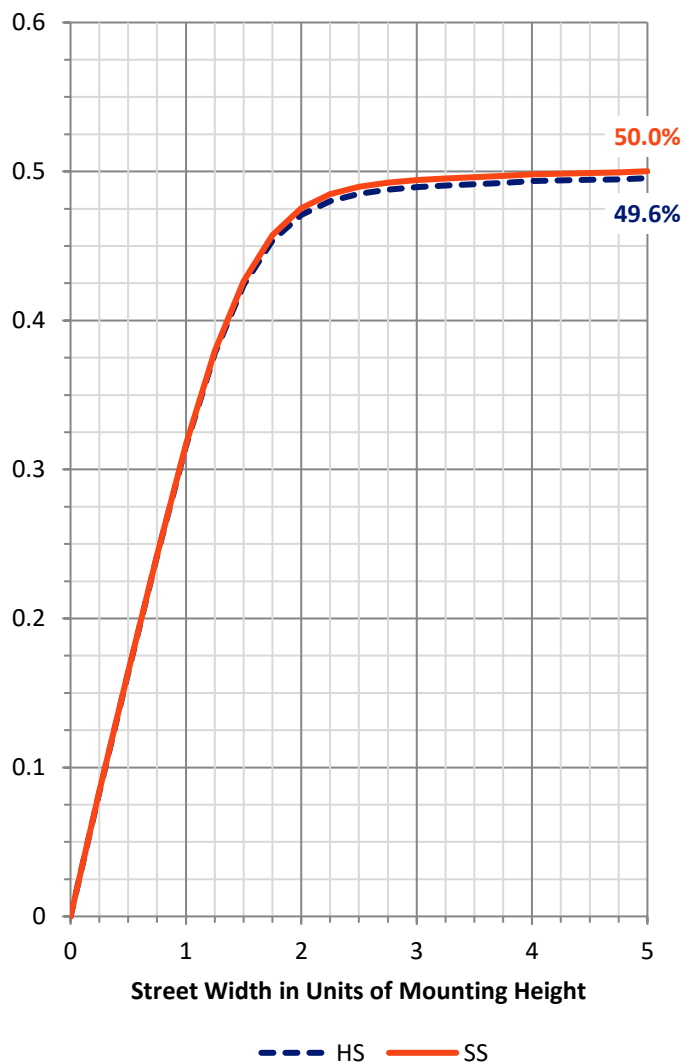
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8312.6	0.0	8312.6
	% Fixture	49.8	0.0	49.8
Street Side	Lumens	8374.4	0.0	8374.4
	% Fixture	50.2	0.0	50.2
Total	Lumens	16687.0	0.0	16687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	0.5
10°-20°	404.9	2.4
20°-30°	875.5	5.2
30°-40°	1670.4	10.0
40°-50°	3034.5	18.2
50°-60°	4262.8	25.5
60°-70°	4070.1	24.4
70°-80°	2088.8	12.5
80°-90°	191.5	1.1
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°	16687.0	100.0
0°-180°	16687.0	100.0

Coefficient of Utilization



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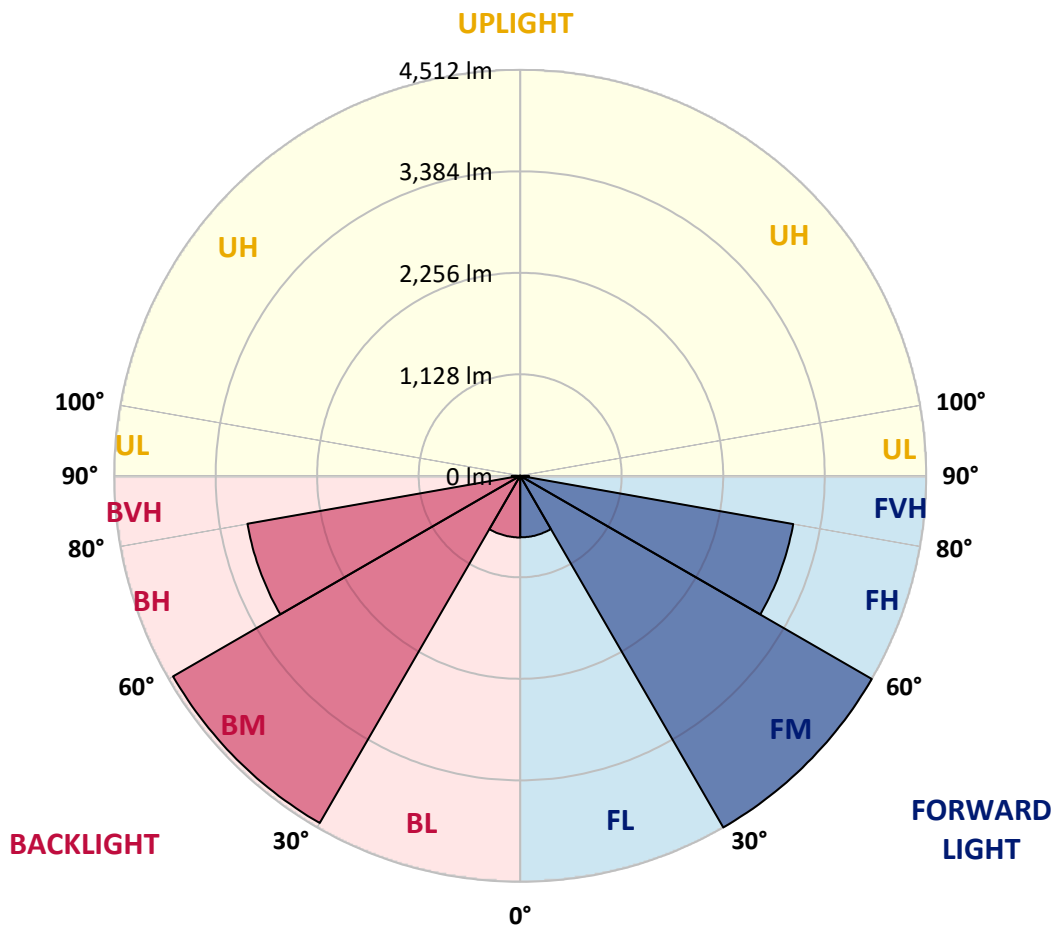
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	683.7	4.1			
FM (30°-60°)	4512.3	27.0			
FH (60°-80°)	3081.2	18.5			G2/5000
FVH (80°-90°)	97.2	0.6			G1/100
BL (0°-30°)	685.1	4.1	B2/1000		
BM (30°-60°)	4455.4	26.7	B3/5000		
BH (60°-80°)	3077.8	18.4	B4/5000		G4/5000
BVH (80°-90°)	94.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7
2.5°	709.4	683.1	649.9	669.5	677.7	691.9	689.8	683.1	654.0	702.7	708.1
5°	888.0	846.1	830.5	827.8	831.8	818.3	862.3	849.4	873.1	917.1	927.2
7.5°	1011.1	980.0	946.8	957.0	915.0	908.9	965.8	1016.5	1029.3	1109.8	1115.2
10°	1069.2	1038.8	1047.6	1041.5	1036.8	1076.0	1102.4	1139.6	1193.0	1200.4	1211.9
12.5°	1118.6	1130.8	1169.3	1168.0	1231.5	1301.2	1291.1	1329.6	1338.4	1431.7	1403.3
15°	1243.7	1268.7	1266.0	1289.7	1317.4	1431.7	1432.4	1498.0	1558.2	1594.7	1585.2
17.5°	1427.0	1435.8	1399.3	1400.6	1481.1	1527.8	1579.8	1568.3	1725.2	1796.9	1801.7
20°	1536.6	1558.9	1516.9	1461.5	1604.2	1668.4	1697.5	1630.6	1798.3	1895.0	1895.0
22.5°	1727.9	1670.5	1606.9	1569.7	1695.5	1763.8	1760.4	1741.5	1830.7	2001.8	1985.6
25°	1833.4	1801.0	1769.2	1778.7	1842.2	1877.4	1924.1	1880.1	1964.0	2091.1	2037.7
27.5°	2033.6	1973.4	1817.2	1941.7	1941.7	1915.3	2014.0	2035.0	1980.2	2187.2	2227.1
30°	2260.2	2239.2	2018.1	2150.0	2109.4	2035.0	2224.4	2210.8	2118.8	2329.9	2311.6
32.5°	2474.6	2543.6	2333.9	2261.5	2322.4	2350.8	2251.4	2292.0	2309.6	2513.1	2504.3
35°	2803.3	2861.4	2583.5	2565.2	2463.8	2437.4	2513.1	2526.7	2528.0	2742.4	2703.2
37.5°	3372.0	3288.2	3013.6	2884.4	2895.9	2864.1	2879.0	2772.2	2787.0	3098.1	3117.7
40°	3788.0	3693.3	3387.6	3294.9	3067.7	3203.6	3083.3	3072.4	3042.7	3445.7	3434.9
42.5°	4247.2	4117.3	3779.2	3655.4	3414.0	3358.5	3303.0	3428.2	3420.0	3793.4	3875.9
45°	4594.1	4331.7	4155.2	4078.1	3933.4	3797.4	3744.7	3800.8	3775.1	4052.4	4196.4
47.5°	4813.2	4585.3	4382.4	4220.1	4081.5	4414.9	4147.7	4072.7	4020.6	4331.0	4469.7
50°	4987.7	4724.6	4485.2	4431.1	4540.7	4835.5	4414.2	4248.5	4312.1	4540.7	4729.4
52.5°	5035.1	4756.4	4541.4	4506.9	4803.1	4856.5	4788.2	4509.6	4492.7	4792.3	5020.2
55°	4890.3	4623.2	4521.1	4709.8	5037.1	4992.4	5096.6	4918.7	4799.0	5049.3	5336.0
57.5°	4517.7	4252.6	4228.2	4500.1	4912.6	5292.7	5344.1	5203.5	5046.6	5311.7	5649.8
60°	3905.6	3663.5	3725.1	4025.3	4647.5	5188.6	5461.8	5333.3	5284.6	5548.4	5940.6
62.5°	2952.7	2764.0	2928.4	3347.0	4163.3	5054.0	5624.1	5603.8	5533.5	5799.9	6197.6
65°	1882.8	1783.4	1951.1	2376.5	3411.9	4809.2	5701.9	5728.9	5793.9	5994.0	6396.4
67.5°	1094.3	1041.5	1143.6	1491.9	2429.9	3948.9	5557.2	5945.4	5979.2	6094.1	6527.0
70°	647.2	612.7	654.7	837.9	1375.6	2690.3	4740.2	5850.7	6106.3	6186.1	6658.9
72.5°	493.7	461.2	443.0	495.7	718.2	1389.8	3205.0	4959.3	6004.2	6125.3	6603.4
75°	426.7	395.6	374.0	378.7	427.4	660.1	1737.4	3547.2	5116.2	5577.4	6099.6
77.5°	366.6	338.8	323.3	321.9	328.0	362.5	726.3	1923.4	3204.3	4009.1	4397.3
80°	293.5	271.9	268.5	268.5	259.7	257.0	361.1	731.8	1219.4	1445.9	1386.4
82.5°	214.4	192.7	214.4	211.7	198.2	187.3	229.9	316.5	376.0	296.9	234.7
85°	144.7	125.1	141.3	144.1	131.2	97.4	138.0	158.3	162.3	101.4	83.9
87.5°	50.7	49.4	79.8	69.7	56.8	33.1	50.7	54.8	57.5	35.8	24.3
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):

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7
2.5°	710.1	702.0	661.4	667.5	683.1	690.5	697.9	667.5	652.6	700.0	695.2
5°	929.9	900.2	867.0	862.3	864.3	835.2	852.1	844.7	848.1	878.5	884.6
7.5°	1113.9	1078.0	1034.1	999.6	940.1	892.7	932.6	952.9	959.0	1013.1	1033.4
10°	1213.3	1182.8	1170.0	1105.1	1085.5	1079.4	1069.9	1037.4	1073.3	1060.4	1070.6
12.5°	1408.1	1402.0	1335.0	1292.4	1296.5	1308.0	1248.5	1216.0	1169.3	1242.4	1216.0
15°	1573.8	1600.1	1533.2	1455.4	1416.8	1436.5	1391.1	1343.8	1301.9	1324.2	1295.8
17.5°	1785.4	1784.8	1654.2	1571.0	1567.7	1566.3	1499.4	1395.2	1445.3	1429.7	1431.1
20°	1897.7	1879.4	1717.1	1621.1	1702.9	1673.8	1613.7	1479.7	1537.9	1556.8	1569.0
22.5°	1991.7	1981.6	1784.8	1714.4	1767.2	1767.8	1707.7	1637.3	1629.9	1688.7	1656.9
25°	2057.3	2097.9	1912.6	1895.7	1918.7	1895.7	1836.8	1790.8	1761.1	1849.0	1761.1
27.5°	2212.9	2155.4	1932.2	2028.2	2042.4	1926.8	2000.5	1946.4	1863.9	1972.8	2008.6
30°	2323.8	2357.6	2070.2	2214.9	2198.0	2091.1	2121.6	2119.5	2020.8	2233.1	2208.1
32.5°	2514.5	2473.9	2295.4	2283.9	2324.4	2319.7	2268.3	2293.3	2317.7	2471.9	2509.1
35°	2709.9	2753.2	2439.4	2517.2	2505.7	2432.7	2567.2	2551.7	2624.0	2940.6	2835.7
37.5°	3150.9	2944.6	2762.7	2752.5	2829.6	2841.1	2797.9	2866.2	3022.4	3265.9	3378.1
40°	3439.7	3345.7	3036.6	3048.8	2941.9	3125.9	3004.1	3223.9	3343.0	3753.5	3713.6
42.5°	3876.6	3647.3	3350.4	3391.0	3369.3	3280.7	3441.0	3554.0	3724.4	4037.5	4239.7
45°	4201.9	3887.4	3746.7	3721.7	3719.0	3873.2	3852.9	4033.5	4094.3	4329.7	4497.4
47.5°	4448.7	4181.6	3973.3	4001.7	3919.2	4359.4	4124.8	4180.9	4304.0	4525.8	4721.3
50°	4741.5	4444.0	4207.3	4277.6	4478.5	4647.5	4435.2	4339.1	4399.3	4661.1	4878.8
52.5°	5012.7	4699.6	4439.2	4498.1	4826.1	4749.0	4726.0	4483.2	4475.8	4686.1	4933.6
55°	5329.9	4976.9	4747.0	4933.6	5049.9	4954.6	4918.1	4622.5	4439.9	4556.9	4790.2
57.5°	5641.0	5251.5	5022.9	5061.4	5208.9	5114.2	4840.3	4385.1	4157.2	4180.2	4416.2
60°	5932.5	5503.7	5315.0	5277.8	5395.5	5024.2	4544.7	3950.3	3648.0	3592.5	3796.7
62.5°	6182.1	5714.7	5536.2	5434.7	5547.0	5027.6	4084.2	3252.3	2920.3	2732.3	2891.2
65°	6380.2	5889.9	5762.8	5710.0	5750.6	4721.9	3366.6	2388.0	1980.9	1772.6	1865.2
67.5°	6512.1	5988.0	5929.8	5998.8	5457.7	3932.7	2494.2	1528.4	1151.7	1038.1	1096.3
70°	6648.7	6074.5	6072.5	5837.8	4627.9	2711.3	1456.8	881.2	670.2	626.3	662.8
72.5°	6602.7	5971.7	6002.2	5105.4	3207.0	1449.3	769.0	498.4	453.8	469.4	501.8
75°	6114.4	5429.3	5282.6	3670.3	1819.2	673.6	443.0	377.4	374.7	398.3	430.1
77.5°	4435.2	3781.2	3393.0	2080.3	779.8	364.5	326.0	315.2	315.2	334.1	362.5
80°	1462.2	1265.4	1318.8	804.8	368.6	251.6	254.3	259.0	257.7	262.4	286.1
82.5°	240.1	248.9	384.8	328.7	222.5	171.8	192.1	201.5	204.2	182.6	207.6
85°	85.2	96.0	163.7	152.2	128.5	86.6	126.5	141.3	139.3	121.7	134.6
87.5°	26.4	33.8	59.5	46.0	38.5	23.7	47.3	55.5	69.7	28.4	25.7
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)