

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: P368224

Luminaire Tested: **PMM-SA4A-730-U-T4FT**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-12)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4A-730-U-T4FT
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14152 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

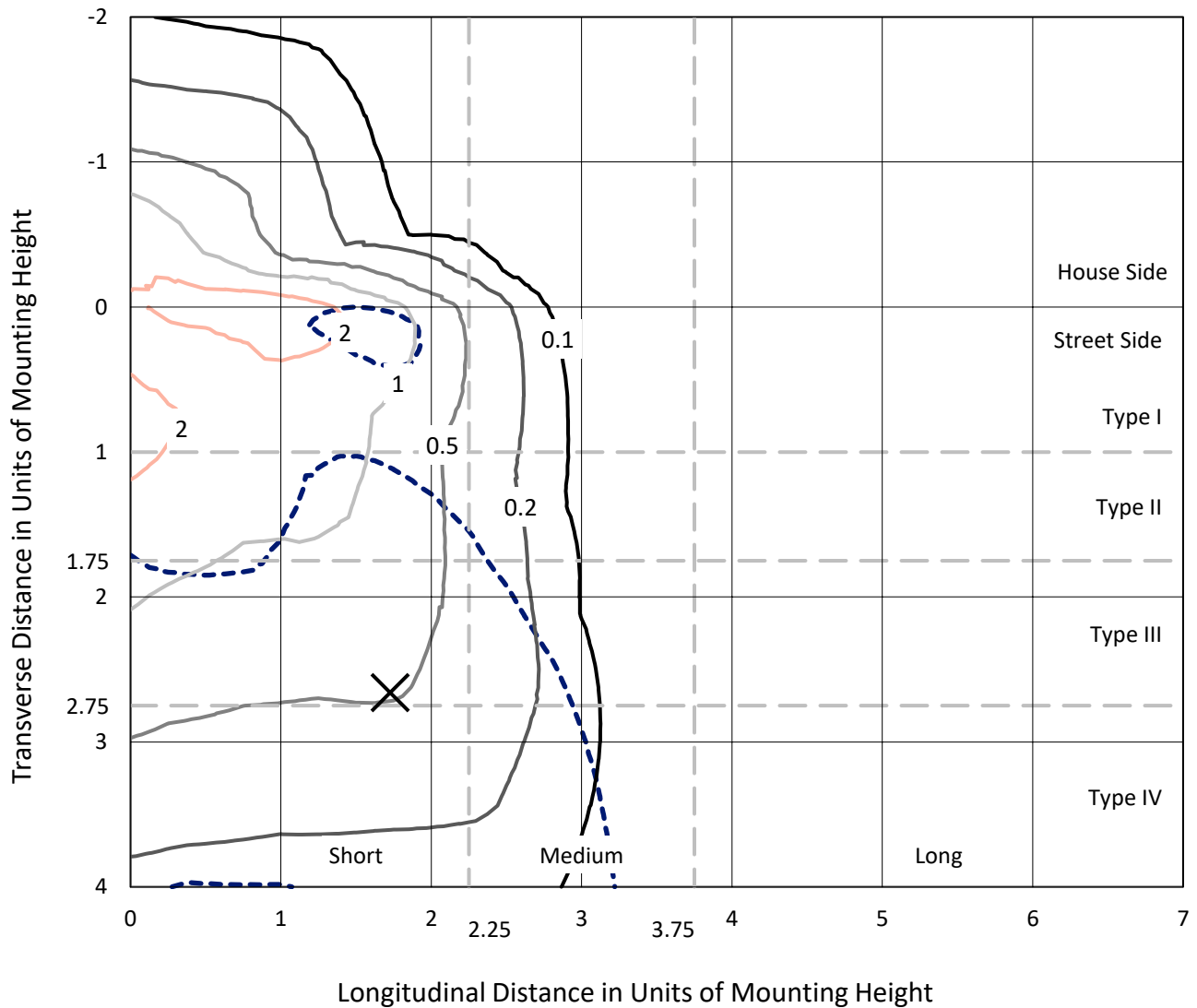
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

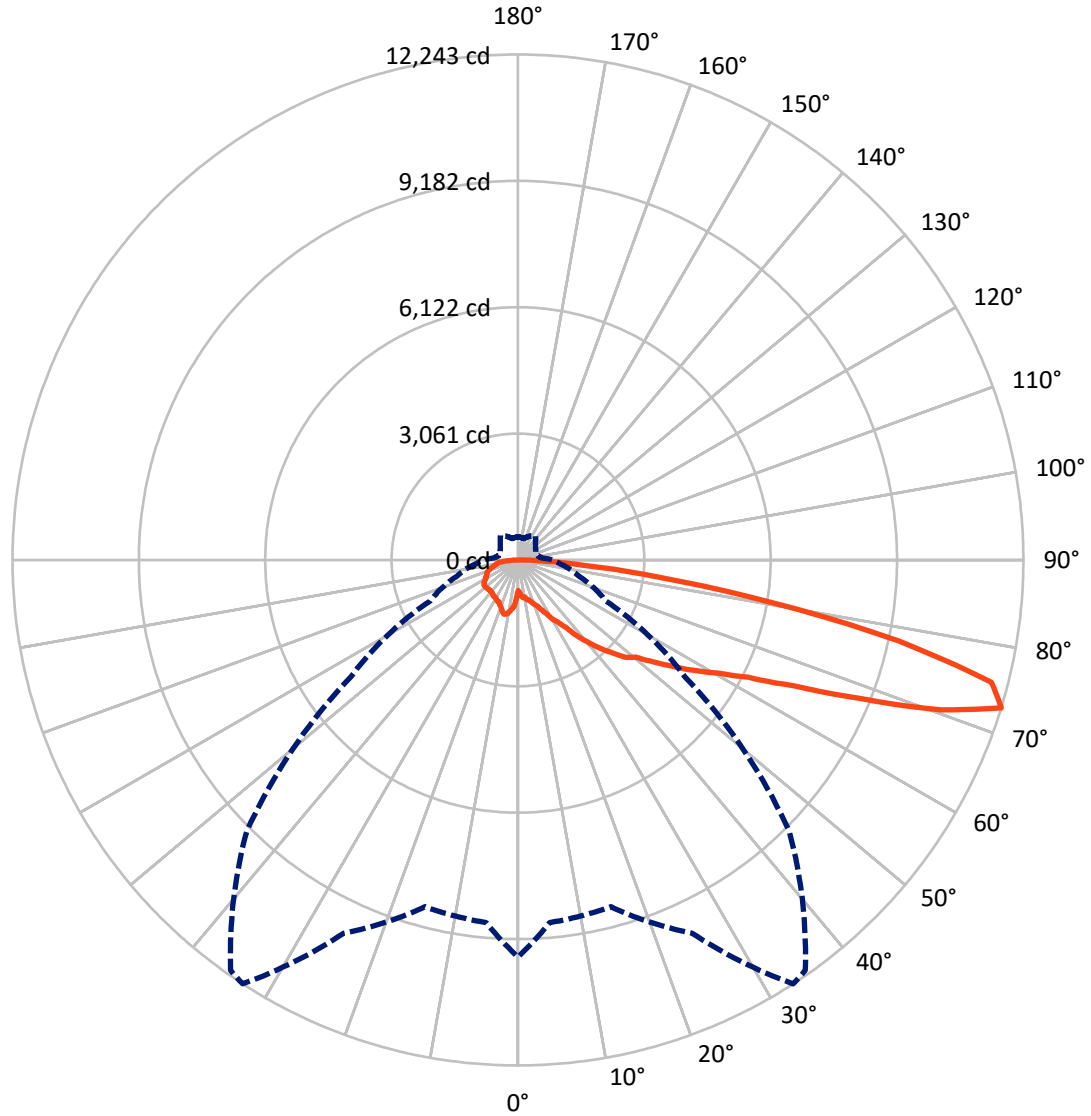
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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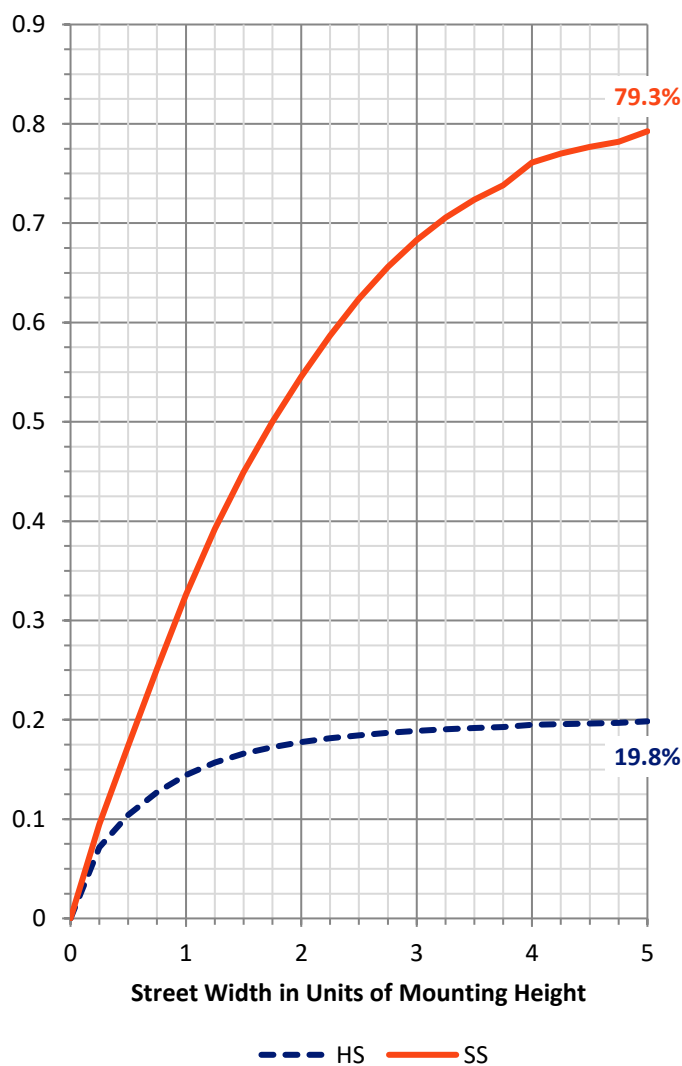
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2862.9	0.0	2862.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	11289.1	0.0	11289.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	14152.0	0.0	14152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	0.7
10°-20°	377.1	2.7
20°-30°	687.6	4.9
30°-40°	1163.2	8.2
40°-50°	1935.2	13.7
50°-60°	2840.1	20.1
60°-70°	3633.1	25.7
70°-80°	2955.9	20.9
80°-90°	457.8	3.2
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°	14152.0	100.0
0°-180°	14152.0	100.0

Coefficient of Utilization



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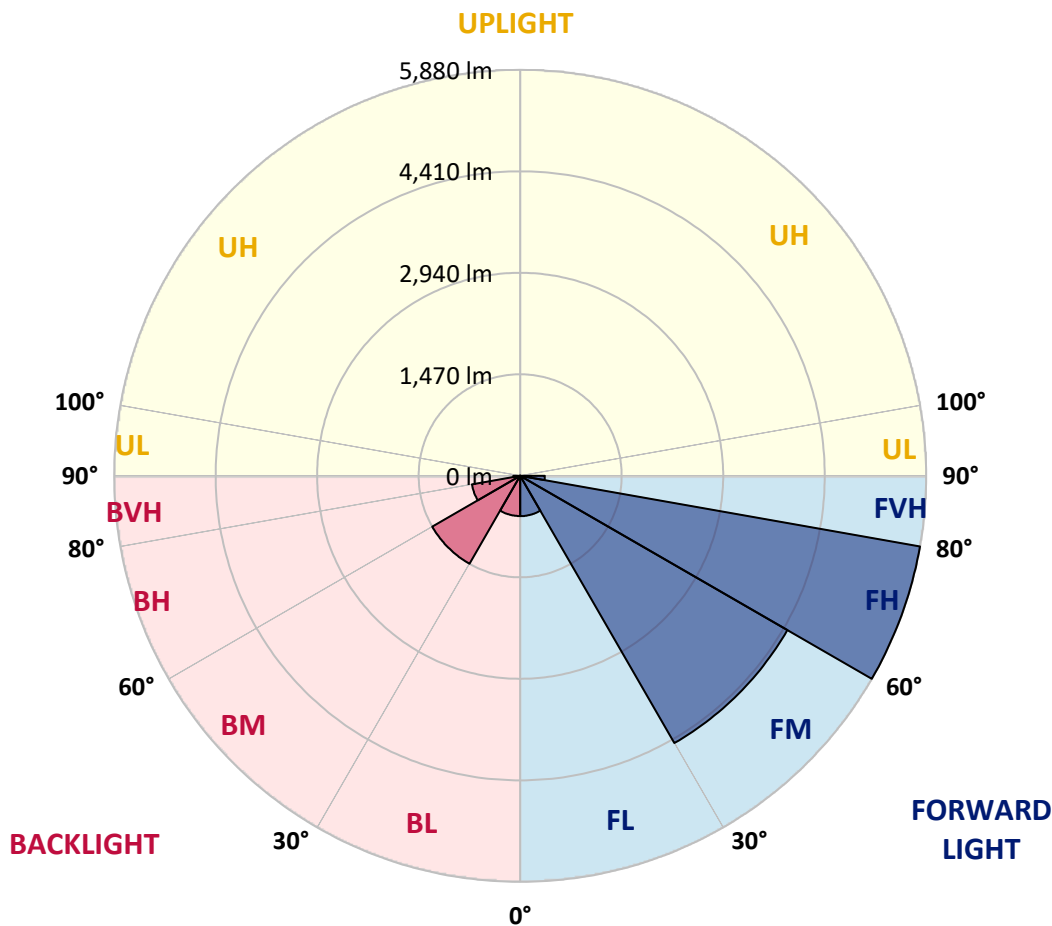
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.0	4.1			
FM (30°-60°)	4468.1	31.6			
FH (60°-80°)	5879.6	41.5			G3/7500
FVH (80°-90°)	357.3	2.5			G3/500
BL (0°-30°)	582.7	4.1	B2/1000		
BM (30°-60°)	1470.4	10.4	B2/2500		
BH (60°-80°)	709.4	5.0	B2/1000		G2/1000
BVH (80°-90°)	100.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1
2.5°	841.3	814.9	771.4	770.3	794.3	799.6	815.5	816.6	822.5	813.1	880.0
5°	928.2	900.0	883.0	888.8	877.7	891.2	891.2	929.9	981.6	1041.5	1126.6
7.5°	948.7	928.2	908.8	923.5	925.8	912.9	925.2	1016.2	1109.6	1169.5	1305.7
10°	907.6	887.1	901.8	906.5	905.9	935.2	999.2	1072.0	1175.9	1286.3	1359.7
12.5°	900.0	914.7	921.7	929.9	985.7	994.5	1091.4	1166.5	1271.0	1367.9	1558.7
15°	1013.3	1032.7	989.2	986.3	1004.5	1012.7	1113.1	1188.8	1341.5	1504.1	1675.5
17.5°	1174.8	1181.8	1103.7	1063.8	1077.3	1083.8	1127.8	1222.9	1316.8	1617.4	1831.1
20°	1330.9	1335.6	1188.8	1099.6	1147.2	1154.2	1195.3	1249.9	1323.9	1680.8	1936.2
22.5°	1494.7	1464.8	1303.9	1191.2	1218.8	1220.6	1244.6	1274.6	1379.7	1670.8	2064.2
25°	1673.8	1655.0	1452.4	1344.4	1343.3	1319.2	1320.4	1363.2	1438.9	1777.7	2148.1
27.5°	1911.5	1913.9	1619.8	1561.6	1470.6	1454.8	1375.5	1455.4	1541.7	1778.9	2329.6
30°	2219.8	2162.8	1852.8	1758.9	1669.1	1635.6	1528.2	1596.3	1633.9	1880.4	2526.8
32.5°	2470.5	2454.0	2095.9	1953.8	1807.0	1845.8	1727.2	1667.3	1734.8	2055.4	2825.6
35°	2710.6	2656.6	2353.0	2168.1	2013.7	1990.2	1913.3	1923.3	1964.4	2276.7	3216.1
37.5°	3068.7	3039.3	2717.0	2421.1	2348.9	2253.2	2204.5	2235.6	2203.3	2560.3	3801.4
40°	3469.1	3298.8	3021.1	2757.5	2622.5	2555.0	2572.0	2542.7	2518.0	2878.5	4326.2
42.5°	3852.5	3697.5	3223.1	3104.5	2928.4	2956.6	2863.2	2883.8	2953.6	3329.9	4811.8
45°	4269.9	3934.6	3437.4	3332.9	3206.7	3242.5	3317.0	3294.7	3409.2	3862.4	5269.1
47.5°	4478.3	4159.5	3700.4	3530.1	3528.4	3453.8	3907.6	3957.0	3777.9	4257.0	5733.5
50°	4679.1	4365.6	3895.9	3780.8	3697.5	3857.2	4474.2	4360.9	4111.4	4709.6	6244.2
52.5°	4958.5	4601.0	4120.2	3997.5	4100.8	4248.7	4926.2	4903.9	4438.4	5175.2	6688.1
55°	5171.6	4810.6	4457.7	4343.8	4541.1	4686.1	5386.5	5252.1	4718.4	5516.8	6969.3
57.5°	5545.0	5174.6	4956.2	4703.1	5057.7	5055.4	5830.3	5726.4	5017.8	5797.5	7082.6
60°	6138.6	5703.5	5475.2	5183.4	5563.2	5698.8	6337.6	6038.2	5229.8	5974.8	6878.3
62.5°	6971.6	6455.0	6084.6	5795.7	6258.9	6504.3	6964.0	6265.4	5243.3	5924.3	6341.1
65°	8002.0	7373.8	6888.3	6583.0	7347.4	7697.9	7721.3	6405.7	5118.8	5402.4	5211.6
67.5°	9007.1	8300.8	7794.1	7852.3	8968.3	9134.5	8542.1	6523.1	4450.1	4338.0	3618.8
70°	9668.7	8903.1	8565.6	9182.0	10877.5	10707.3	9207.3	6213.7	3504.3	2812.1	2037.8
72.5°	9618.8	8817.4	8695.9	9972.2	12243.1	12136.8	9288.3	4941.5	2347.2	1537.6	1016.2
75°	7836.4	7213.5	7489.4	9440.3	11849.7	11844.4	8064.2	3058.7	1204.1	789.6	642.3
77.5°	4332.7	4090.8	4901.6	7147.8	9435.0	9483.2	5448.7	1387.3	649.3	559.5	483.8
80°	1517.6	1495.3	2124.1	3857.2	6206.7	6218.4	2533.9	634.6	472.0	423.3	355.2
82.5°	554.8	550.1	880.6	1791.8	3417.4	3409.8	961.1	395.1	349.9	299.4	234.2
85°	221.3	216.6	402.7	795.5	1569.9	1544.6	373.4	224.3	229.0	178.5	115.1
87.5°	61.1	63.4	136.8	248.9	480.8	445.6	93.9	75.7	92.8	72.8	36.4
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°	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1
2.5°	891.8	897.7	839.5	860.1	886.5	900.6	907.6	877.7	887.7	929.9	928.2
5°	1144.2	1120.7	1098.4	1121.3	1106.1	1084.3	1119.6	1117.8	1140.7	1163.6	1168.9
7.5°	1332.7	1302.2	1291.6	1239.9	1188.3	1136.0	1181.2	1209.4	1215.3	1272.2	1296.3
10°	1400.8	1389.0	1393.2	1325.1	1318.6	1323.9	1282.2	1237.0	1264.6	1241.1	1258.7
12.5°	1558.1	1587.5	1514.7	1468.3	1464.2	1431.9	1348.5	1319.2	1288.1	1320.4	1303.9
15°	1684.3	1738.9	1660.9	1579.3	1487.1	1437.2	1366.1	1321.5	1301.0	1308.0	1288.1
17.5°	1869.3	1920.4	1721.9	1596.9	1501.8	1428.4	1319.8	1224.7	1275.1	1279.3	1256.4
20°	1992.0	1995.5	1742.5	1553.4	1467.7	1340.3	1234.6	1151.3	1209.4	1268.7	1294.5
22.5°	2111.7	2085.3	1767.7	1518.8	1343.8	1220.6	1168.9	1163.6	1207.0	1256.9	1262.8
25°	2201.6	2205.7	1782.4	1505.9	1271.0	1103.1	1103.1	1141.3	1179.5	1298.0	1292.2
27.5°	2419.4	2259.1	1725.4	1446.6	1170.1	1034.4	1103.7	1154.8	1173.0	1301.6	1314.5
30°	2577.9	2473.4	1737.2	1345.0	1067.9	1002.2	1059.1	1123.1	1173.6	1322.1	1317.4
32.5°	2843.8	2562.6	1764.8	1202.4	991.6	989.8	1040.3	1107.8	1168.3	1299.8	1306.9
35°	3138.0	2825.6	1687.9	1093.7	973.4	982.8	1047.9	1075.0	1146.0	1291.0	1297.5
37.5°	3682.2	2963.0	1639.1	1009.8	961.6	988.7	1013.3	1055.0	1126.6	1247.0	1289.2
40°	4001.6	3246.0	1458.3	961.1	937.0	984.0	996.3	1031.5	1070.3	1194.1	1221.1
42.5°	4421.9	3335.2	1303.9	907.0	924.7	964.6	1001.6	1010.4	1036.2	1110.8	1160.1
45°	4772.4	3402.2	1140.1	863.6	883.0	1007.4	1009.8	1005.7	1001.0	1028.6	1069.1
47.5°	5135.2	3581.8	989.2	815.5	867.1	1042.7	1013.9	976.3	956.9	960.5	998.0
50°	5535.6	3712.1	882.4	776.1	870.6	1042.7	1033.9	946.4	907.6	897.7	937.0
52.5°	5887.9	3727.4	801.4	744.4	856.0	1006.9	1047.4	927.6	862.4	838.4	875.3
55°	6079.9	3534.3	742.7	715.7	818.4	974.6	1040.3	917.0	807.8	789.6	822.5
57.5°	6075.7	3213.7	692.8	675.7	775.5	929.4	1001.0	859.5	774.4	763.8	796.1
60°	5856.8	2838.0	654.6	642.9	731.5	863.6	930.5	821.9	742.1	736.8	772.0
62.5°	5360.1	2449.9	617.6	608.2	690.4	817.2	897.1	780.2	708.6	708.0	741.5
65°	4389.6	1966.7	583.0	580.6	652.3	771.4	865.4	745.0	674.0	685.7	719.8
67.5°	3024.7	1382.0	546.0	553.0	617.0	727.4	841.3	721.5	637.6	661.6	692.2
70°	1659.7	854.8	504.9	519.0	572.4	676.3	803.7	683.4	590.0	627.0	648.1
72.5°	844.2	570.1	453.8	476.1	517.8	601.2	733.3	628.2	538.9	553.0	564.2
75°	567.1	429.2	396.9	421.5	451.5	529.6	650.5	576.5	490.2	488.5	500.8
77.5°	428.6	335.2	337.0	365.2	384.5	465.6	584.7	533.1	449.1	445.0	463.2
80°	313.5	254.2	271.2	300.6	318.2	418.0	541.9	484.9	393.3	376.9	392.2
82.5°	207.8	180.2	200.8	230.1	244.2	349.3	492.0	411.5	320.5	278.9	281.2
85°	98.0	94.5	119.8	133.9	152.1	216.6	368.1	284.7	204.3	169.1	176.7
87.5°	22.3	29.9	39.3	38.7	45.2	58.1	114.5	79.8	59.3	40.5	27.0
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)