

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: P366602

Luminaire Tested: **PMM-SA1A-727-U-RW**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366602
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-SA1A-727-U-RW
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3471 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

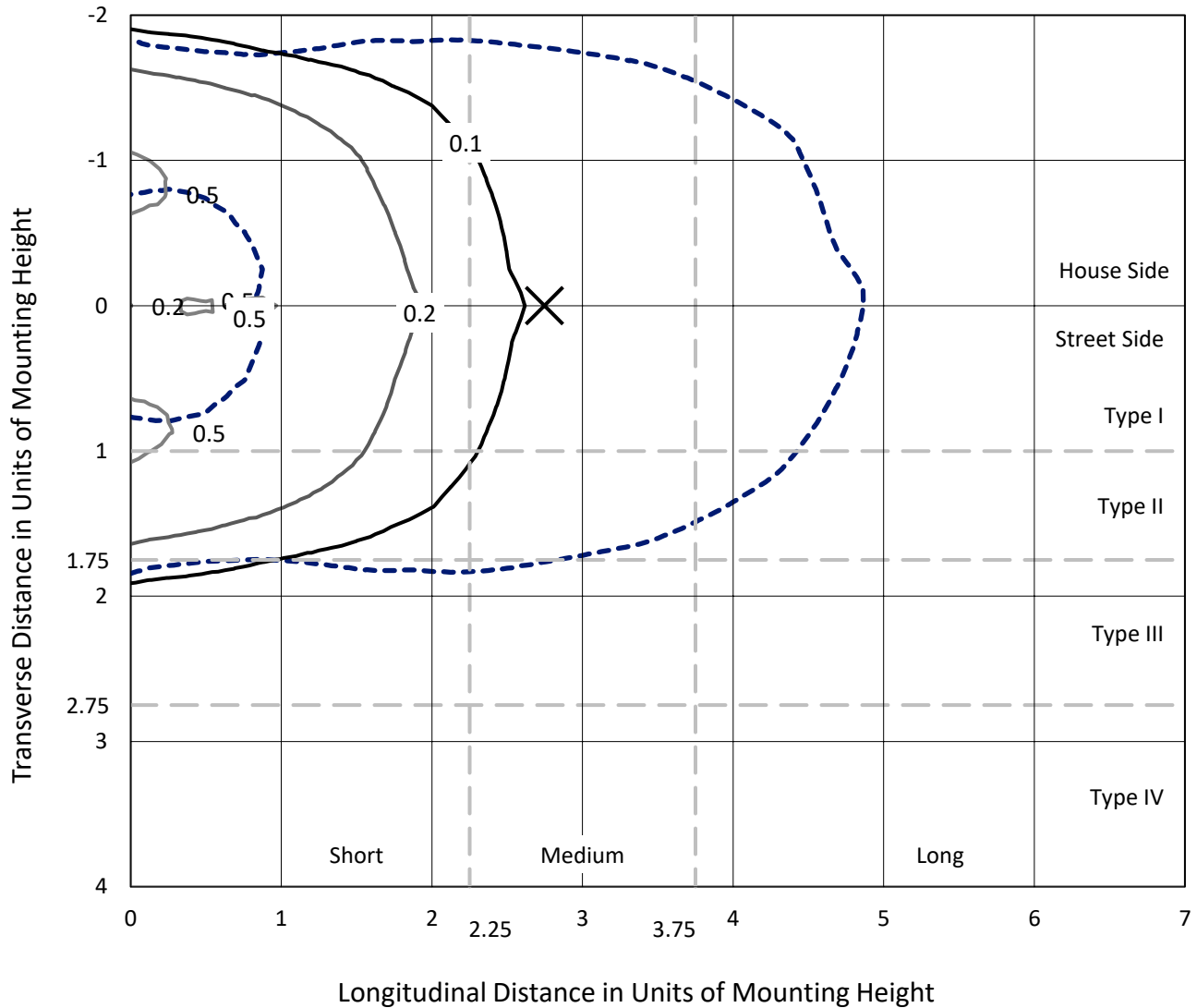
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

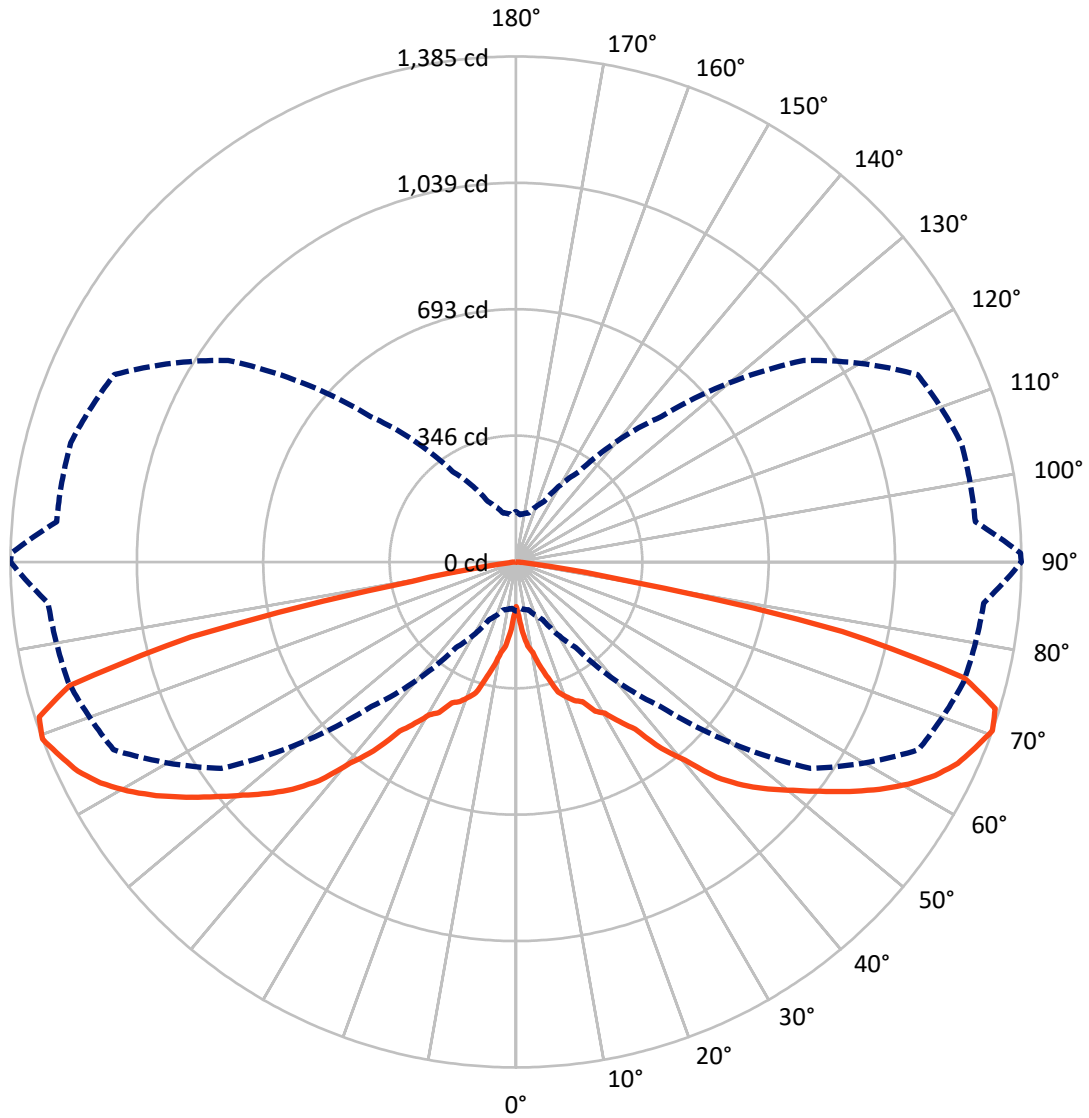
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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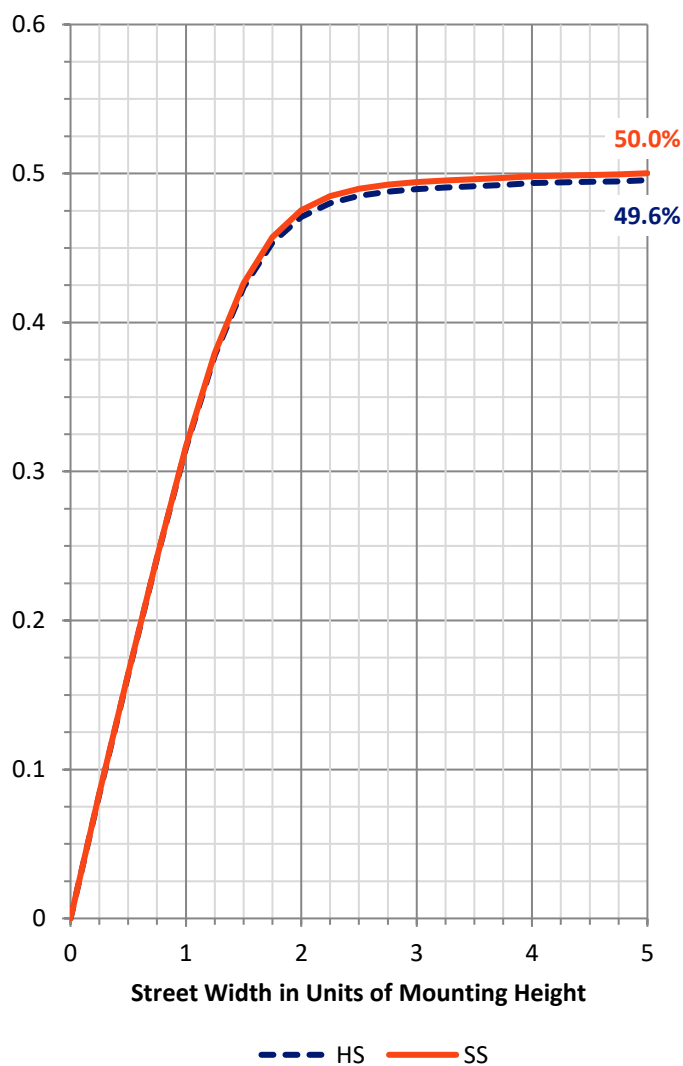
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1729.1	0.0	1729.1
	% Fixture	49.8	0.0	49.8
Street Side	Lumens	1741.9	0.0	1741.9
	% Fixture	50.2	0.0	50.2
Total	Lumens	3471.0	0.0	3471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.4	0.5
10°-20°	84.2	2.4
20°-30°	182.1	5.2
30°-40°	347.5	10.0
40°-50°	631.2	18.2
50°-60°	886.7	25.5
60°-70°	846.6	24.4
70°-80°	434.5	12.5
80°-90°	39.8	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°	3471.0	100.0
0°-180°	3471.0	100.0

Coefficient of Utilization



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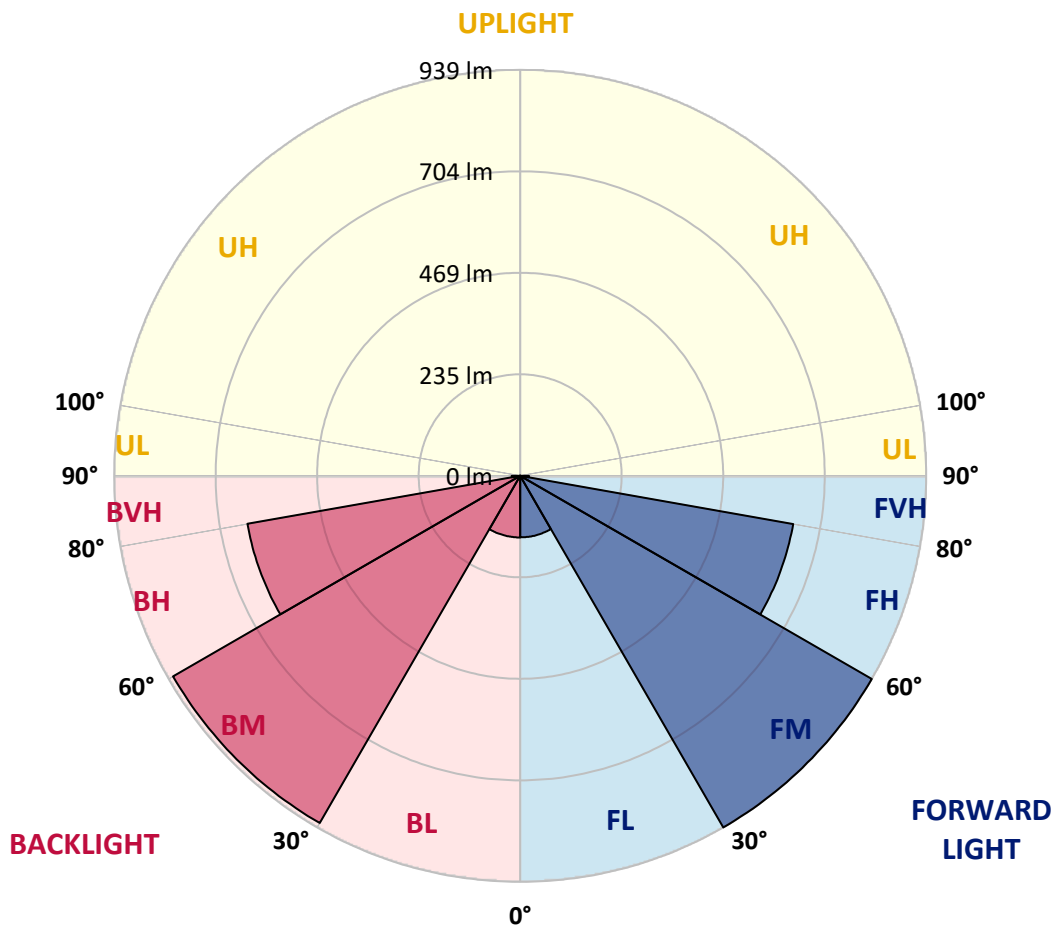
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.2	4.1			
FM (30°-60°)	938.6	27.0			
FH (60°-80°)	640.9	18.5			G0/660
FVH (80°-90°)	20.2	0.6			G1/100
BL (0°-30°)	142.5	4.1	B1/500		
BM (30°-60°)	926.8	26.7	B1/1000		
BH (60°-80°)	640.2	18.4	B2/1000		G2/1000
BVH (80°-90°)	19.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8
2.5°	147.6	142.1	135.2	139.3	141.0	143.9	143.5	142.1	136.0	146.2	147.3
5°	184.7	176.0	172.7	172.2	173.0	170.2	179.4	176.7	181.6	190.8	192.9
7.5°	210.3	203.8	196.9	199.1	190.3	189.1	200.9	211.4	214.1	230.8	232.0
10°	222.4	216.1	217.9	216.6	215.7	223.8	229.3	237.0	248.2	249.7	252.1
12.5°	232.7	235.2	243.2	242.9	256.2	270.7	268.5	276.6	278.4	297.8	291.9
15°	258.7	263.9	263.3	268.3	274.0	297.8	297.9	311.6	324.1	331.7	329.7
17.5°	296.8	298.7	291.1	291.3	308.1	317.8	328.6	326.2	358.9	373.8	374.8
20°	319.6	324.3	315.5	304.0	333.7	347.0	353.1	339.2	374.1	394.2	394.2
22.5°	359.4	347.5	334.2	326.5	352.7	366.9	366.2	362.2	380.8	416.4	413.0
25°	381.4	374.6	368.0	370.0	383.2	390.5	400.2	391.1	408.5	435.0	423.9
27.5°	423.0	410.5	378.0	403.9	403.9	398.4	418.9	423.3	411.9	454.9	463.2
30°	470.1	465.8	419.8	447.2	438.8	423.3	462.7	459.9	440.7	484.6	480.8
32.5°	514.7	529.1	485.5	470.4	483.1	489.0	468.3	476.7	480.4	522.7	520.9
35°	583.1	595.2	537.4	533.6	512.5	507.0	522.7	525.6	525.8	570.4	562.3
37.5°	701.4	684.0	626.8	600.0	602.4	595.8	598.9	576.6	579.7	644.4	648.5
40°	787.9	768.2	704.6	685.4	638.1	666.4	641.3	639.1	632.9	716.7	714.5
42.5°	883.4	856.4	786.1	760.3	710.1	698.6	687.1	713.1	711.4	789.0	806.2
45°	955.6	901.0	864.3	848.3	818.2	789.9	778.9	790.6	785.2	842.9	872.9
47.5°	1001.2	953.8	911.6	877.8	849.0	918.3	862.8	847.1	836.3	900.9	929.7
50°	1037.5	982.8	933.0	921.7	944.5	1005.8	918.2	883.7	896.9	944.5	983.7
52.5°	1047.3	989.4	944.6	937.5	999.1	1010.2	996.0	938.0	934.5	996.8	1044.2
55°	1017.2	961.7	940.4	979.7	1047.7	1038.5	1060.1	1023.1	998.2	1050.3	1109.9
57.5°	939.7	884.6	879.5	936.0	1021.9	1100.9	1111.6	1082.4	1049.7	1104.9	1175.2
60°	812.4	762.0	774.8	837.3	966.7	1079.3	1136.1	1109.4	1099.2	1154.1	1235.7
62.5°	614.2	574.9	609.1	696.2	866.0	1051.3	1169.9	1165.6	1151.0	1206.4	1289.1
65°	391.6	371.0	405.8	494.3	709.7	1000.3	1186.0	1191.7	1205.2	1246.8	1330.5
67.5°	227.6	216.6	237.9	310.3	505.4	821.4	1155.9	1236.7	1243.7	1267.6	1357.7
70°	134.6	127.5	136.2	174.3	286.1	559.6	986.0	1217.0	1270.2	1286.8	1385.1
72.5°	102.7	95.9	92.1	103.1	149.4	289.1	666.7	1031.6	1248.9	1274.1	1373.5
75°	88.8	82.3	77.8	78.8	88.9	137.3	361.4	737.8	1064.2	1160.1	1268.7
77.5°	76.2	70.5	67.2	67.0	68.2	75.4	151.1	400.1	666.5	833.9	914.7
80°	61.1	56.6	55.8	55.8	54.0	53.5	75.1	152.2	253.6	300.8	288.4
82.5°	44.6	40.1	44.6	44.0	41.2	39.0	47.8	65.8	78.2	61.8	48.8
85°	30.1	26.0	29.4	30.0	27.3	20.3	28.7	32.9	33.8	21.1	17.4
87.5°	10.6	10.3	16.6	14.5	11.8	6.9	10.6	11.4	12.0	7.5	5.1
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°	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8
2.5°	147.7	146.0	137.6	138.8	142.1	143.6	145.2	138.8	135.8	145.6	144.6
5°	193.4	187.2	180.3	179.4	179.8	173.7	177.3	175.7	176.4	182.7	184.0
7.5°	231.7	224.2	215.1	207.9	195.5	185.7	194.0	198.2	199.5	210.7	215.0
10°	252.4	246.0	243.4	229.9	225.8	224.5	222.5	215.8	223.3	220.6	222.7
12.5°	292.9	291.6	277.7	268.8	269.7	272.1	259.7	252.9	243.2	258.4	252.9
15°	327.3	332.8	318.9	302.7	294.7	298.8	289.4	279.5	270.8	275.4	269.5
17.5°	371.4	371.2	344.1	326.8	326.1	325.8	311.9	290.2	300.6	297.4	297.7
20°	394.7	390.9	357.2	337.2	354.2	348.2	335.6	307.8	319.9	323.8	326.4
22.5°	414.3	412.2	371.2	356.6	367.6	367.7	355.2	340.6	339.0	351.3	344.7
25°	427.9	436.4	397.8	394.3	399.1	394.3	382.1	372.5	366.3	384.6	366.3
27.5°	460.3	448.3	401.9	421.9	424.8	400.8	416.1	404.9	387.7	410.3	417.8
30°	483.4	490.4	430.6	460.7	457.2	435.0	441.3	440.9	420.3	464.5	459.3
32.5°	523.0	514.6	477.4	475.1	483.5	482.5	471.8	477.0	482.1	514.2	521.9
35°	563.7	572.7	507.4	523.6	521.2	506.0	534.0	530.8	545.8	611.7	589.8
37.5°	655.4	612.5	574.7	572.5	588.6	591.0	582.0	596.2	628.7	679.3	702.7
40°	715.5	695.9	631.6	634.2	611.9	650.2	624.9	670.6	695.4	780.7	772.4
42.5°	806.3	758.7	696.9	705.3	700.8	682.4	715.8	739.2	774.7	839.8	881.9
45°	874.0	808.6	779.3	774.1	773.6	805.6	801.4	839.0	851.6	900.6	935.5
47.5°	925.4	869.8	826.5	832.4	815.2	906.8	858.0	869.7	895.3	941.4	982.0
50°	986.3	924.4	875.1	889.8	931.5	966.7	922.5	902.6	915.1	969.5	1014.8
52.5°	1042.7	977.5	923.4	935.6	1003.9	987.8	983.0	932.5	931.0	974.7	1026.2
55°	1108.7	1035.2	987.4	1026.2	1050.4	1030.6	1023.0	961.5	923.5	947.9	996.4
57.5°	1173.4	1092.3	1044.8	1052.8	1083.5	1063.8	1006.8	912.1	864.7	869.5	918.6
60°	1234.0	1144.8	1105.6	1097.8	1122.3	1045.1	945.3	821.7	758.8	747.3	789.7
62.5°	1285.9	1188.7	1151.6	1130.5	1153.8	1045.8	849.5	676.5	607.4	568.3	601.4
65°	1327.1	1225.1	1198.7	1187.7	1196.2	982.2	700.3	496.7	412.0	368.7	388.0
67.5°	1354.6	1245.5	1233.4	1247.8	1135.2	818.0	518.8	317.9	239.6	215.9	228.0
70°	1383.0	1263.5	1263.1	1214.3	962.6	564.0	303.0	183.3	139.4	130.3	137.9
72.5°	1373.4	1242.2	1248.5	1062.0	667.1	301.5	159.9	103.7	94.4	97.6	104.4
75°	1271.8	1129.3	1098.8	763.4	378.4	140.1	92.1	78.5	77.9	82.9	89.5
77.5°	922.5	786.5	705.8	432.7	162.2	75.8	67.8	65.6	65.6	69.5	75.4
80°	304.1	263.2	274.3	167.4	76.7	52.3	52.9	53.9	53.6	54.6	59.5
82.5°	49.9	51.8	80.0	68.4	46.3	35.7	40.0	41.9	42.5	38.0	43.2
85°	17.7	20.0	34.0	31.7	26.7	18.0	26.3	29.4	29.0	25.3	28.0
87.5°	5.5	7.0	12.4	9.6	8.0	4.9	9.8	11.5	14.5	5.9	5.3
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)