

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: P572873

Luminaire Tested: **ARCH-S-PA2-120-830-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9244 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

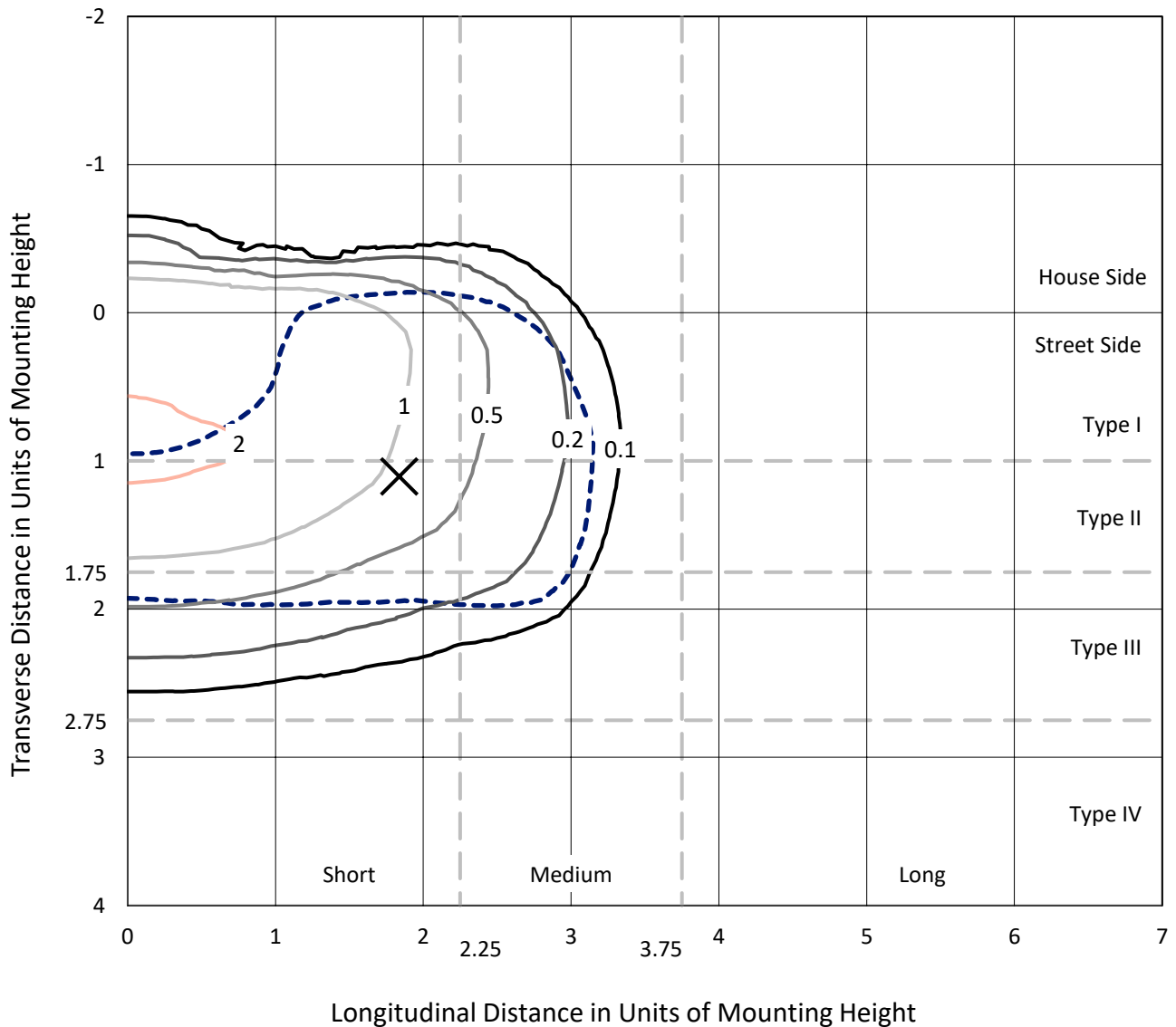
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

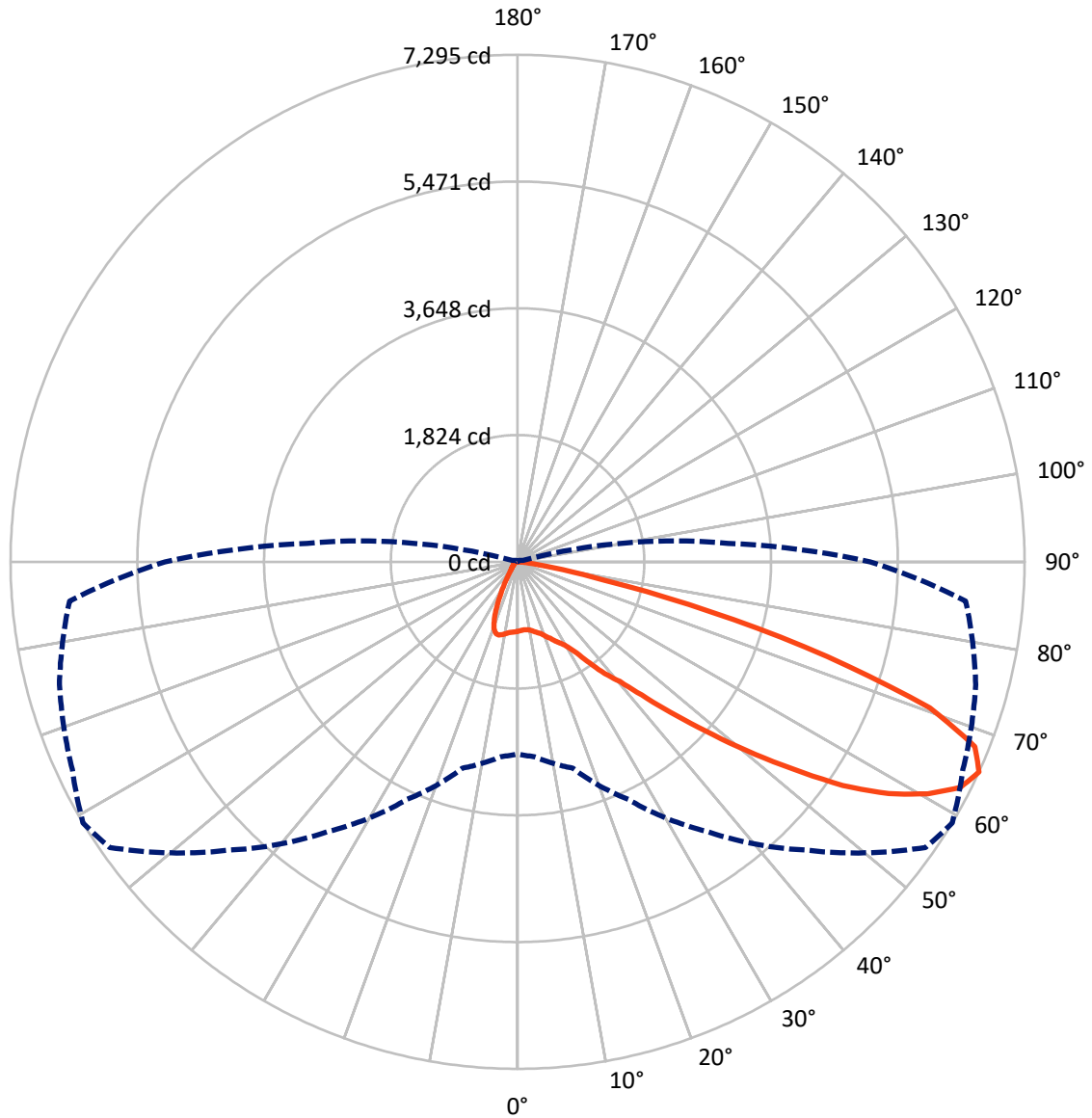
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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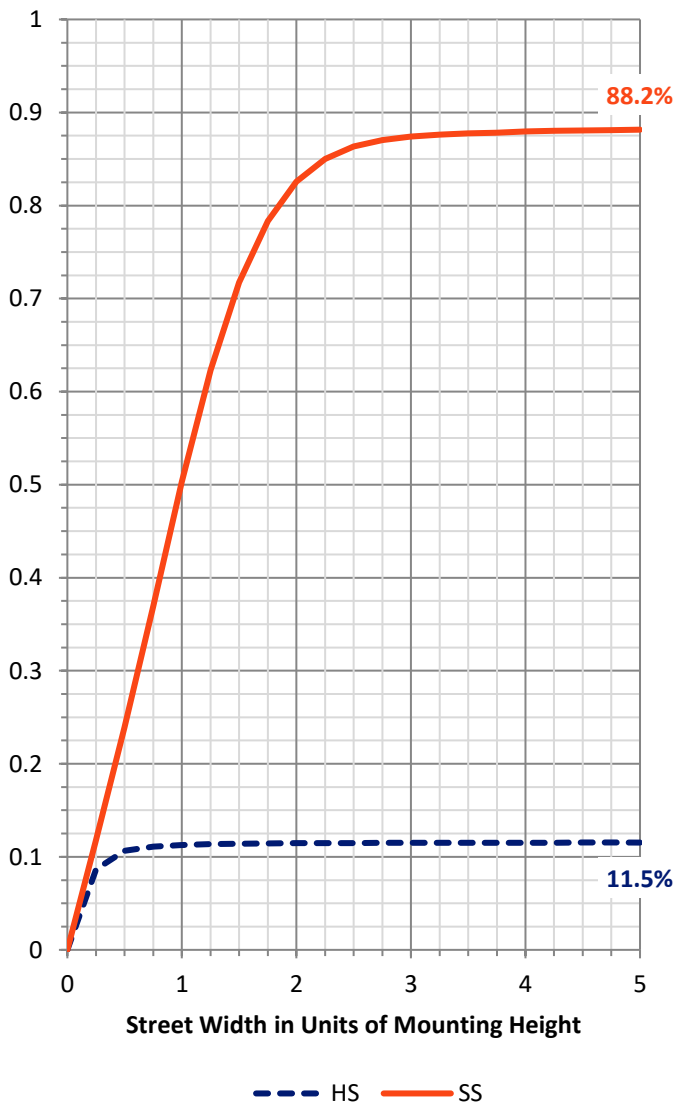
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1078.4	0.0	1078.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	8165.6	0.0	8165.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	9244.0	0.0	9244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	1.0
10°-20°	268.2	2.9
20°-30°	455.5	4.9
30°-40°	806.8	8.7
40°-50°	1521.9	16.5
50°-60°	2575.1	27.9
60°-70°	2677.3	29.0
70°-80°	802.9	8.7
80°-90°	42.1	0.5
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°	9244.0	100.0
0°-180°	9244.0	100.0

Coefficient of Utilization

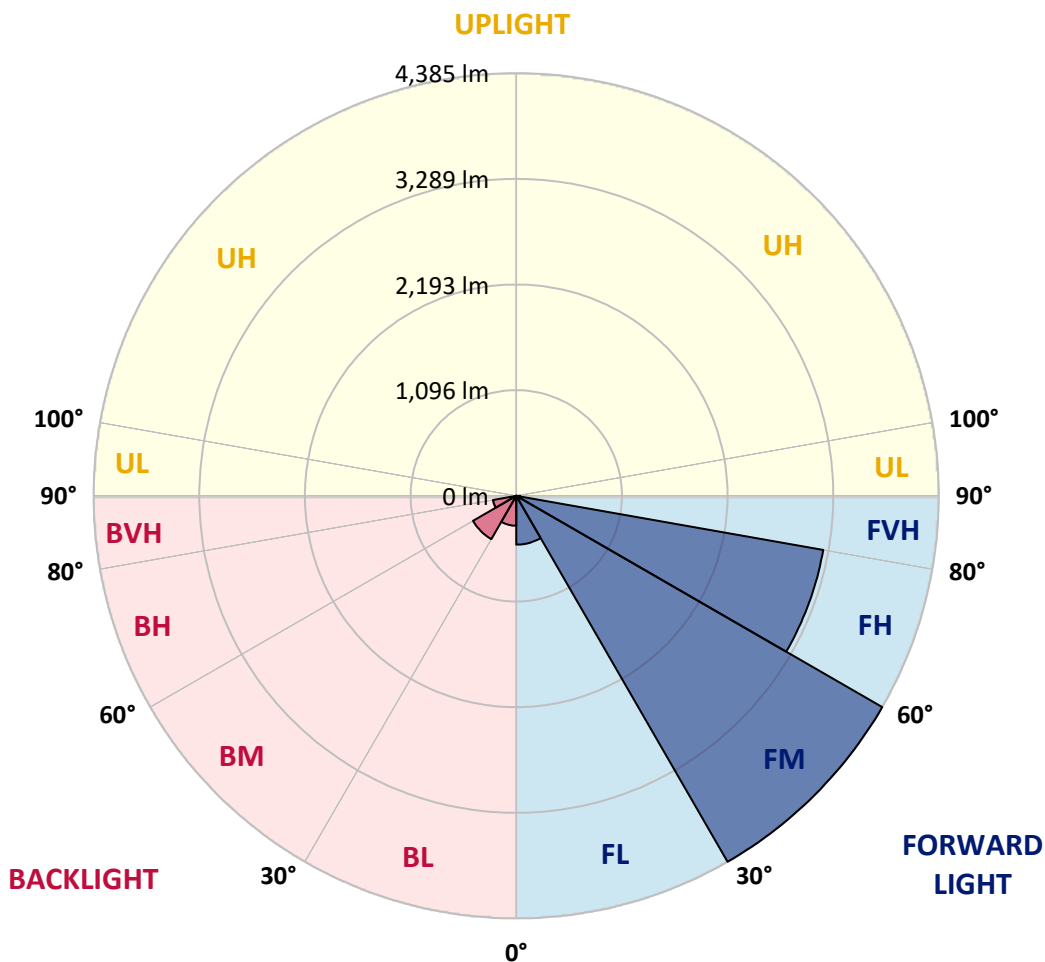


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.9	5.5			
FM (30°-60°)	4385.4	47.4			
FH (60°-80°)	3234.7	35.0			G2/5000
FVH (80°-90°)	38.5	0.4			G1/100
BL (0°-30°)	311.1	3.4	B1/500		
BM (30°-60°)	518.4	5.6	B1/1000		
BH (60°-80°)	245.4	2.7	B1/500		G1/500
BVH (80°-90°)	3.6	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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	972.0	968.6	968.6	975.4	978.7	982.1	988.8	988.8	988.8	995.5	998.9
5°	924.9	924.9	928.3	935.0	948.5	958.5	978.7	982.1	985.5	1002.3	1009.0
7.5°	894.6	894.6	898.0	911.5	928.3	951.8	978.7	985.5	995.5	1019.1	1035.9
10°	891.3	887.9	894.6	908.1	928.3	958.5	988.8	998.9	1019.1	1049.4	1072.9
12.5°	901.4	898.0	904.7	918.2	938.4	968.6	1009.0	1025.8	1049.4	1089.7	1123.3
15°	908.1	904.7	911.5	928.3	951.8	988.8	1035.9	1056.1	1086.4	1143.5	1177.2
17.5°	928.3	924.9	928.3	941.7	965.3	1005.6	1066.2	1086.4	1136.8	1200.7	1237.7
20°	1019.1	1015.7	995.5	988.8	992.2	1029.2	1106.5	1140.2	1200.7	1281.4	1308.3
22.5°	1207.4	1194.0	1157.0	1096.4	1056.1	1069.5	1157.0	1194.0	1274.7	1365.5	1385.7
25°	1459.7	1449.6	1395.8	1291.5	1177.2	1143.5	1214.2	1264.6	1362.1	1463.0	1456.3
27.5°	1745.6	1725.4	1674.9	1530.3	1375.6	1264.6	1284.8	1328.5	1436.1	1543.8	1510.1
30°	1994.4	1987.7	1930.5	1809.5	1627.8	1463.0	1392.4	1416.0	1513.5	1627.8	1587.5
32.5°	2223.2	2203.0	2155.9	2041.5	1873.4	1705.2	1563.9	1563.9	1644.7	1779.2	1718.7
35°	2475.4	2462.0	2404.8	2290.4	2129.0	1930.5	1802.7	1789.3	1856.6	2007.9	1876.7
37.5°	2734.4	2700.7	2673.8	2556.1	2394.7	2223.2	2068.4	2038.2	2071.8	2182.8	2021.4
40°	3057.3	3057.3	2996.7	2889.1	2737.7	2556.1	2340.9	2263.5	2253.4	2398.0	2273.6
42.5°	3433.9	3423.9	3373.4	3272.5	3127.9	2959.7	2687.3	2616.7	2609.9	2784.8	2636.8
45°	3867.8	3861.1	3800.6	3716.5	3615.6	3430.6	3161.5	3090.9	3050.5	3252.3	3077.4
47.5°	4264.7	4241.1	4221.0	4231.1	4173.9	3965.4	3713.1	3629.0	3625.7	3783.7	3558.4
50°	4537.1	4523.7	4594.3	4661.6	4769.2	4638.0	4338.7	4264.7	4207.5	4416.0	4059.5
52.5°	4715.4	4708.6	4849.9	5041.6	5263.6	5253.5	4987.8	4944.1	4897.0	4954.2	4506.8
55°	4786.0	4786.0	4954.2	5307.3	5697.5	5865.6	5741.2	5680.6	5515.8	5398.1	4997.9
57.5°	4701.9	4691.8	4910.4	5371.2	5966.5	6313.0	6366.8	6296.1	6037.2	5906.0	5542.8
60°	4345.4	4352.1	4611.1	5193.0	5946.3	6494.6	6841.0	6777.1	6518.1	6323.0	6000.2
62.5°	3679.5	3736.6	4009.1	4641.4	5515.8	6349.9	7113.4	7147.1	6867.9	6625.7	6407.1
65°	2764.6	2815.1	3074.1	3773.6	4732.2	5865.6	7163.9	7295.0	7069.7	6824.2	6471.0
67.5°	1681.7	1698.5	2014.6	2542.7	3484.4	4886.9	6810.7	7096.6	6935.2	6531.6	5838.7
70°	783.7	827.4	982.1	1389.1	2206.3	3598.8	5885.8	6289.4	6107.8	5606.7	4439.6
72.5°	306.1	319.5	417.1	642.4	1170.4	2263.5	4392.5	4661.6	4537.1	3982.2	2646.9
75°	151.3	161.4	201.8	306.1	534.8	935.0	2683.9	2858.8	2653.7	2001.2	1120.0
77.5°	111.0	111.0	134.5	188.3	292.6	346.4	1130.1	1268.0	1197.3	773.6	306.1
80°	74.0	80.7	94.2	127.8	185.0	168.2	427.1	507.9	423.8	238.8	107.6
82.5°	43.7	47.1	70.6	90.8	124.4	97.5	144.6	161.4	174.9	117.7	50.4
85°	23.5	23.5	47.1	67.3	67.3	43.7	50.4	57.2	67.3	70.6	26.9
87.5°	6.7	6.7	30.3	40.4	26.9	23.5	26.9	26.9	30.3	37.0	13.5
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°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	1002.3	1002.3	1005.6	1005.6	1009.0	1009.0	1009.0	1009.0	1012.4	1015.7	1015.7
5°	1012.4	1015.7	1015.7	1015.7	1015.7	1009.0	1005.6	1002.3	1002.3	1005.6	1005.6
7.5°	1039.3	1042.6	1039.3	1032.5	1022.4	1009.0	995.5	995.5	992.2	995.5	992.2
10°	1079.6	1079.6	1076.3	1059.4	1042.6	1015.7	988.8	968.6	955.2	951.8	945.1
12.5°	1130.1	1130.1	1120.0	1089.7	1059.4	1009.0	938.4	871.1	817.3	793.7	787.0
15°	1180.5	1180.5	1167.1	1123.3	1062.8	941.7	793.7	652.5	571.8	538.1	518.0
17.5°	1241.1	1234.3	1210.8	1150.3	1025.8	807.2	568.4	423.8	359.9	329.6	329.6
20°	1305.0	1298.2	1254.5	1153.6	931.6	578.5	370.0	292.6	275.8	269.1	269.1
22.5°	1375.6	1358.8	1291.5	1126.7	733.2	393.5	279.2	259.0	252.2	248.9	248.9
25°	1432.8	1405.9	1318.4	1052.7	524.7	275.8	245.5	238.8	225.3	222.0	215.3
27.5°	1476.5	1436.1	1328.5	894.6	346.4	228.7	218.6	205.2	191.7	178.3	178.3
30°	1533.7	1483.2	1335.2	696.2	235.4	198.4	188.3	171.5	154.7	141.3	141.3
32.5°	1648.0	1574.0	1338.6	487.7	195.1	174.9	154.7	134.5	117.7	111.0	107.6
35°	1772.5	1671.6	1301.6	316.2	171.5	148.0	124.4	107.6	90.8	87.4	87.4
37.5°	1910.4	1816.2	1220.9	215.3	151.3	124.4	100.9	84.1	74.0	70.6	70.6
40°	2142.4	2031.4	1086.4	171.5	131.2	104.3	84.1	70.6	63.9	60.5	60.5
42.5°	2475.4	2283.7	918.2	148.0	114.4	87.4	67.3	57.2	53.8	50.4	50.4
45°	2858.8	2566.2	723.1	134.5	100.9	74.0	57.2	50.4	47.1	43.7	43.7
47.5°	3299.4	2858.8	571.8	117.7	87.4	63.9	50.4	43.7	40.4	37.0	37.0
50°	3716.5	3087.5	430.5	104.3	77.4	53.8	43.7	40.4	37.0	33.6	33.6
52.5°	4059.5	3242.2	326.2	90.8	67.3	47.1	40.4	37.0	30.3	30.3	30.3
55°	4473.2	3363.3	248.9	80.7	60.5	43.7	37.0	30.3	26.9	23.5	23.5
57.5°	4833.1	3407.0	181.6	70.6	53.8	40.4	33.6	26.9	20.2	16.8	16.8
60°	5075.2	3370.0	131.2	60.5	47.1	33.6	26.9	20.2	13.5	10.1	10.1
62.5°	5246.8	3289.3	100.9	53.8	40.4	30.3	23.5	16.8	10.1	6.7	6.7
65°	5075.2	3040.4	80.7	47.1	33.6	26.9	16.8	13.5	6.7	3.4	3.4
67.5°	4389.1	2549.4	63.9	40.4	30.3	23.5	16.8	10.1	3.4	0.0	0.0
70°	3154.8	1819.6	53.8	37.0	26.9	20.2	13.5	6.7	3.4	0.0	0.0
72.5°	1759.0	938.4	50.4	33.6	26.9	20.2	13.5	6.7	3.4	0.0	0.0
75°	713.0	322.9	47.1	33.6	26.9	16.8	13.5	6.7	3.4	0.0	0.0
77.5°	208.5	111.0	40.4	30.3	26.9	20.2	13.5	6.7	3.4	0.0	0.0
80°	74.0	50.4	30.3	26.9	20.2	16.8	13.5	10.1	3.4	0.0	0.0
82.5°	33.6	20.2	13.5	10.1	10.1	10.1	10.1	6.7	3.4	0.0	0.0
85°	13.5	10.1	6.7	3.4	3.4	3.4	3.4	3.4	3.4	0.0	0.0
87.5°	10.1	6.7	3.4	3.4	3.4	3.4	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)