

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: P572875

Luminaire Tested: **ARCH-S-PA2-120-830-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
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-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9106 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

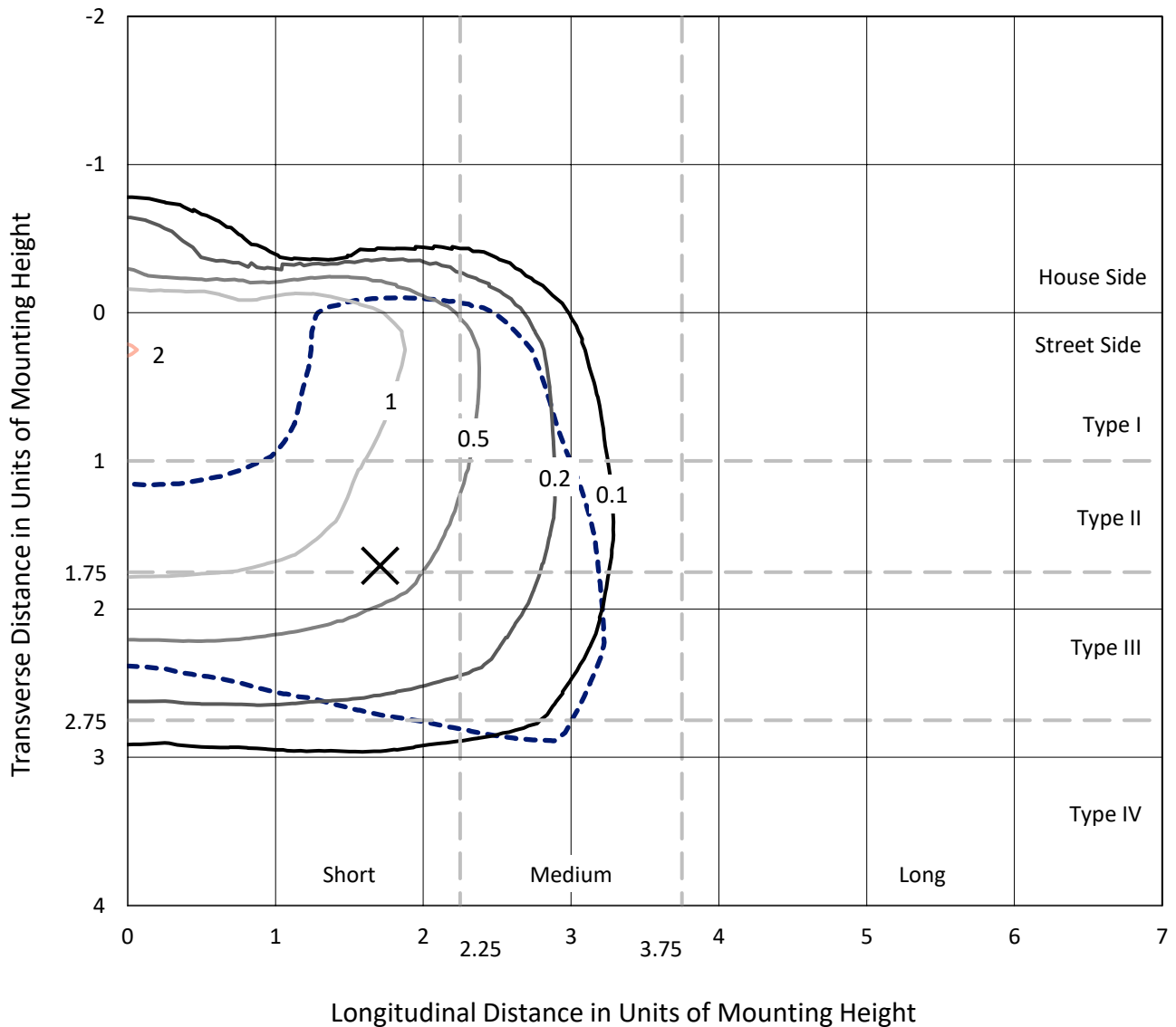
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

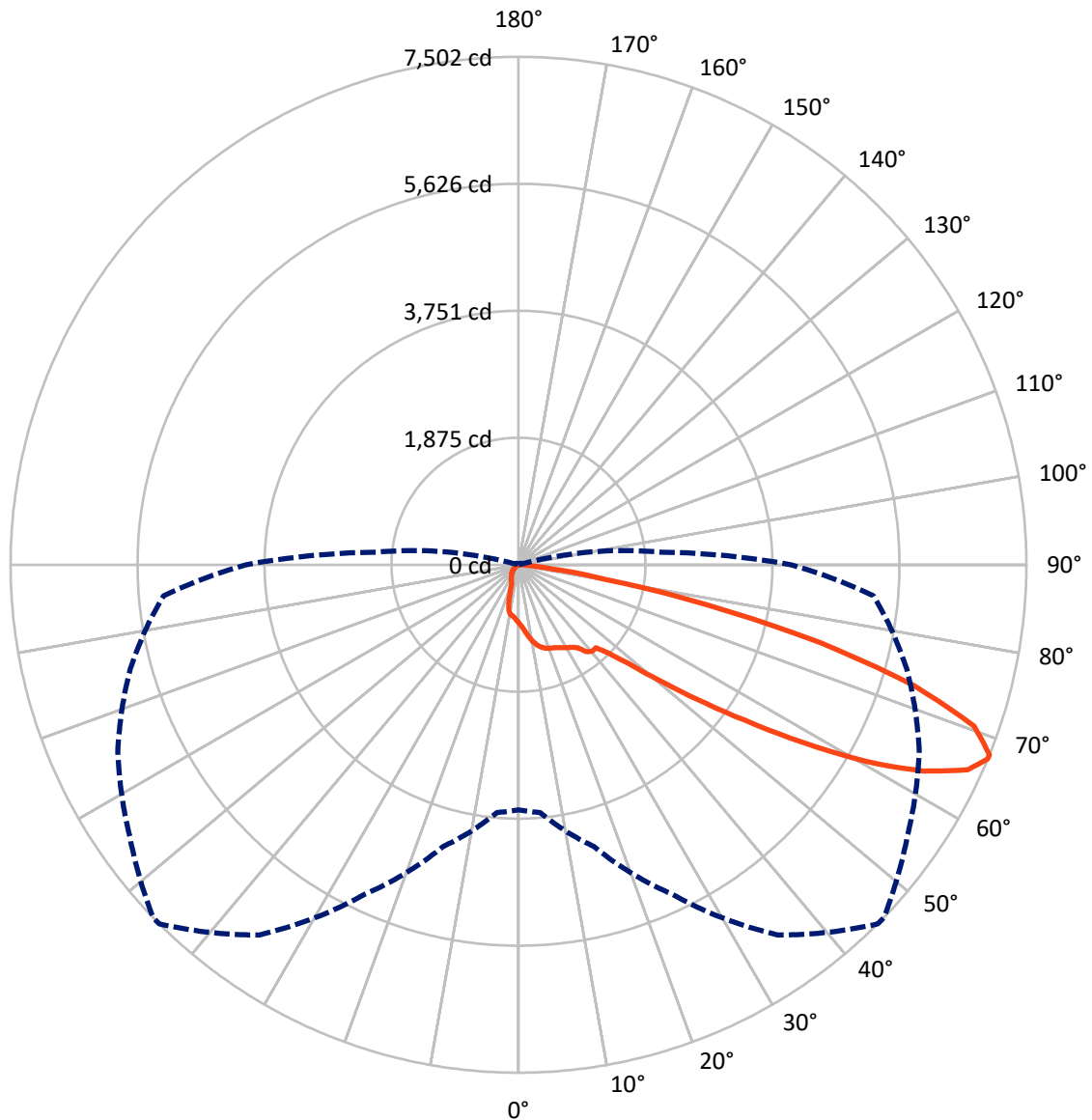
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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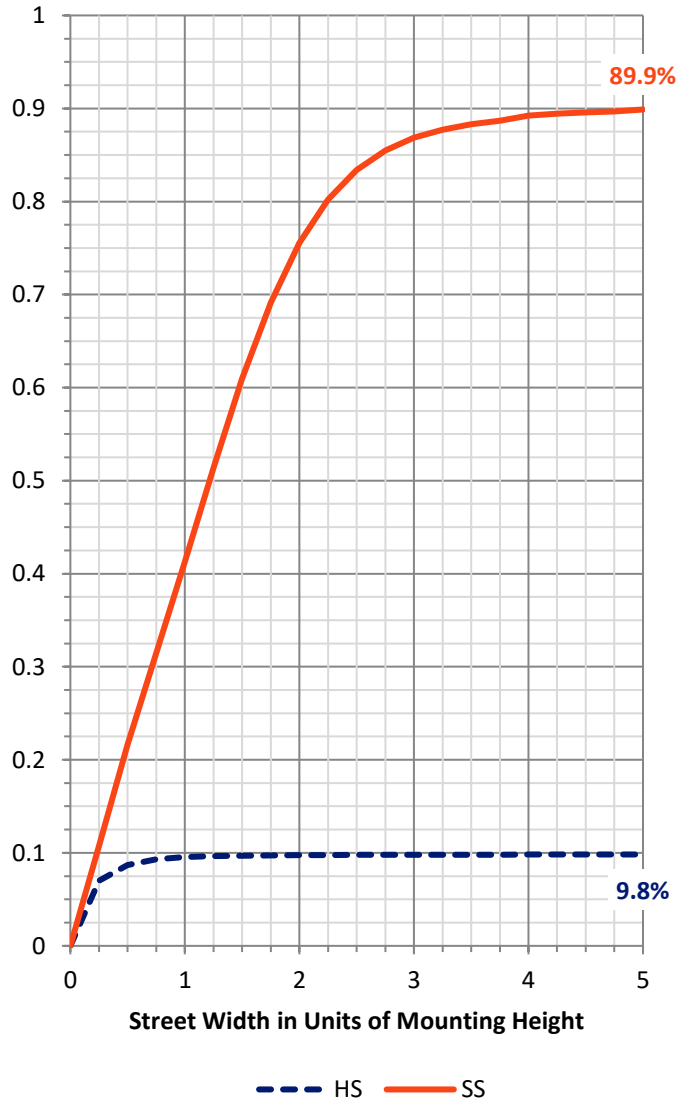
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	902.3	0.0	902.3
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	8203.7	0.0	8203.7
	% Fixture	90.1	0.0	90.1
Total	Lumens	9106.0	0.0	9106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	0.9
10°-20°	261.3	2.9
20°-30°	418.0	4.6
30°-40°	601.6	6.6
40°-50°	1055.4	11.6
50°-60°	2223.7	24.4
60°-70°	3075.0	33.8
70°-80°	1287.3	14.1
80°-90°	97.4	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°	9106.0	100.0
0°-180°	9106.0	100.0

Coefficient of Utilization

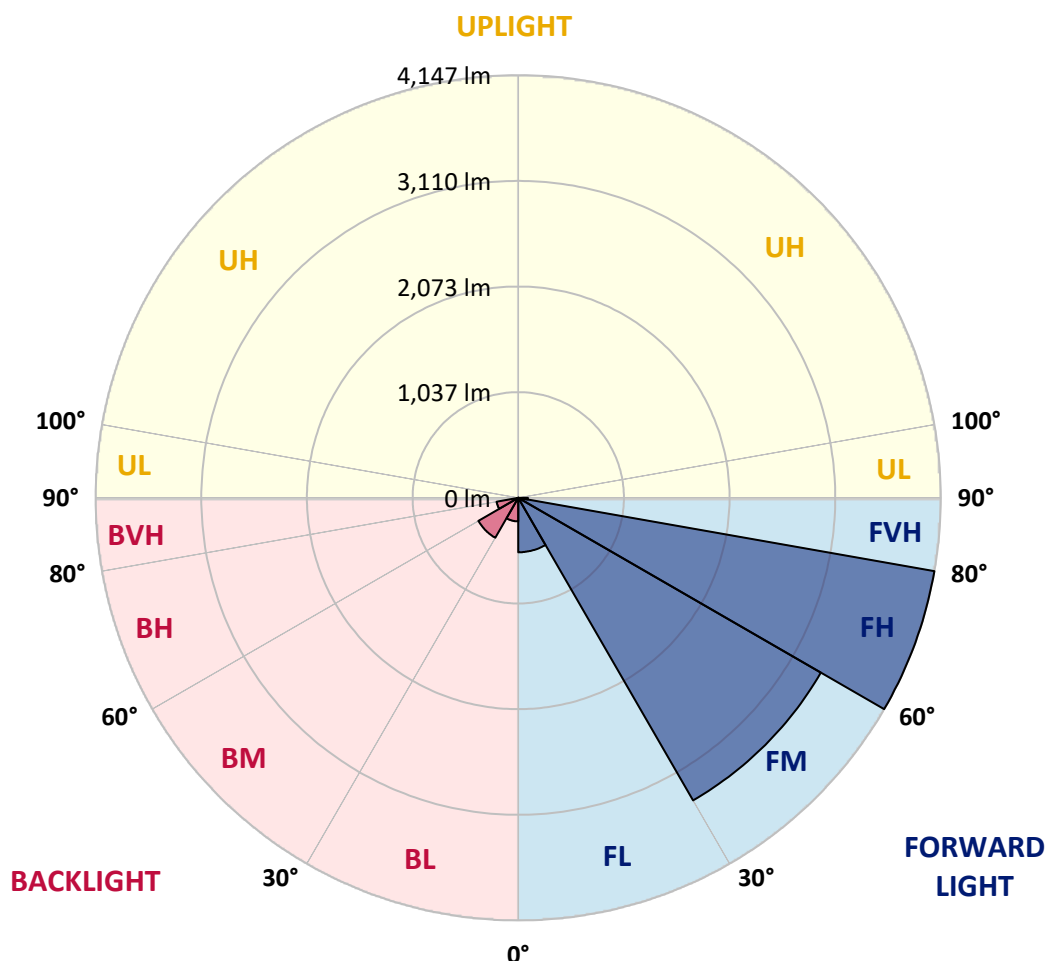


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.5	5.9			
FM (30°-60°)	3428.5	37.7			
FH (60°-80°)	4146.7	45.5			G2/5000
FVH (80°-90°)	94.1	1.0			G1/100
BL (0°-30°)	231.2	2.5	B1/500		
BM (30°-60°)	452.1	5.0	B1/1000		
BH (60°-80°)	215.7	2.4	B1/500		G1/500
BVH (80°-90°)	3.3	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°	46°	55°	65°	75°	85°
0°	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2
2.5°	958.7	941.9	938.6	935.2	925.1	911.6	915.0	904.9	888.1	878.0	867.9
5°	1076.5	1059.7	1052.9	1032.7	1012.6	982.3	982.3	955.4	925.1	898.2	871.3
7.5°	1197.6	1184.1	1170.7	1140.4	1110.1	1069.8	1066.4	1026.0	978.9	938.6	894.8
10°	1298.5	1288.4	1271.6	1234.6	1194.2	1150.5	1140.4	1103.4	1042.8	989.0	931.8
12.5°	1379.2	1369.1	1345.6	1308.6	1258.1	1214.4	1211.0	1163.9	1103.4	1046.2	975.6
15°	1439.8	1423.0	1396.1	1355.7	1305.2	1264.9	1258.1	1217.8	1160.6	1096.7	1012.6
17.5°	1449.9	1439.8	1416.2	1372.5	1328.8	1295.1	1291.8	1261.5	1211.0	1143.8	1056.3
20°	1423.0	1419.6	1399.4	1365.8	1332.1	1315.3	1312.0	1291.8	1251.4	1190.9	1103.4
22.5°	1382.6	1379.2	1365.8	1349.0	1335.5	1332.1	1332.1	1325.4	1301.9	1244.7	1163.9
25°	1355.7	1352.3	1345.6	1335.5	1335.5	1355.7	1359.1	1365.8	1345.6	1301.9	1214.4
27.5°	1359.1	1352.3	1345.6	1335.5	1349.0	1386.0	1389.3	1406.1	1389.3	1349.0	1271.6
30°	1406.1	1396.1	1375.9	1352.3	1369.1	1419.6	1423.0	1443.2	1429.7	1409.5	1335.5
32.5°	1480.2	1473.4	1433.1	1392.7	1402.8	1453.2	1460.0	1497.0	1513.8	1483.5	1392.7
35°	1587.8	1564.3	1513.8	1473.4	1466.7	1503.7	1513.8	1574.3	1618.1	1544.1	1426.3
37.5°	1675.3	1655.1	1574.3	1510.4	1547.4	1631.5	1634.9	1708.9	1671.9	1550.8	1480.2
40°	1971.3	1967.9	1826.6	1624.8	1584.4	1678.6	1692.1	1705.5	1688.7	1628.2	1597.9
42.5°	2449.0	2408.6	2250.5	1941.0	1665.2	1675.3	1682.0	1752.6	1840.1	1813.2	1823.3
45°	2967.0	2933.4	2755.1	2364.9	1941.0	1856.9	1863.7	1978.0	2146.2	2179.9	2233.7
47.5°	3444.7	3390.9	3290.0	2896.4	2412.0	2166.4	2179.9	2317.8	2597.0	2671.0	2755.1
50°	3848.4	3811.4	3717.2	3458.2	2990.6	2654.2	2667.6	2782.0	3145.3	3263.1	3370.7
52.5°	4433.7	4383.3	4201.6	4080.5	3727.3	3290.0	3259.7	3380.8	3797.9	3875.3	4020.0
55°	4972.0	4867.7	4760.1	4709.6	4561.6	4050.2	4040.2	4063.7	4410.2	4450.6	4709.6
57.5°	5200.7	5180.6	5271.4	5439.6	5473.2	4945.1	4901.3	4810.5	5083.0	5079.6	5382.4
60°	5345.4	5345.4	5587.6	6004.7	6273.8	5900.4	5839.9	5557.3	5654.9	5658.2	5937.4
62.5°	5254.6	5278.1	5654.9	6283.9	6825.5	6711.2	6670.8	6196.5	6189.7	6112.4	6209.9
65°	4692.8	4733.1	5338.7	6129.2	7027.4	7296.5	7279.7	6741.4	6546.3	6263.8	6045.1
67°	3828.2	3902.2	4635.6	5570.8	6798.6	7498.3	7501.7	6976.9	6549.7	6011.5	5463.1
67.5°	3619.7	3673.5	4309.3	5368.9	6674.2	7501.7	7501.7	7007.2	6529.5	5934.1	5261.3
70°	2307.7	2321.2	3014.1	4154.5	5702.0	7138.4	7165.3	6778.4	5947.5	4803.8	3693.7
72.5°	1140.4	1110.1	1591.2	2674.4	4279.0	6109.0	6179.7	5789.4	4706.2	3138.6	1951.1
75°	447.4	477.7	693.0	1423.0	2681.1	4605.3	4659.1	4211.7	3027.6	1618.1	770.4
77.5°	198.5	198.5	296.0	639.2	1409.5	2825.8	2852.7	2570.1	1597.9	666.1	235.5
80°	107.6	114.4	154.7	279.2	709.8	1298.5	1416.2	1275.0	723.3	292.7	80.7
82.5°	53.8	57.2	94.2	158.1	356.6	491.1	518.1	541.6	333.0	181.7	33.6
85°	20.2	23.5	50.5	90.8	161.5	164.8	164.8	211.9	181.7	137.9	16.8
87.5°	3.4	6.7	23.5	37.0	63.9	57.2	50.5	67.3	100.9	87.5	10.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2
2.5°	861.2	854.5	841.0	830.9	824.2	817.5	810.7	810.7	807.4	807.4	810.7
5°	861.2	847.7	820.8	804.0	790.5	780.4	773.7	773.7	770.4	773.7	777.1
7.5°	878.0	857.8	820.8	790.5	773.7	756.9	750.2	746.8	746.8	750.2	746.8
10°	904.9	878.0	830.9	790.5	767.0	743.4	706.4	672.8	642.5	629.1	625.7
12.5°	938.6	904.9	847.7	800.6	763.6	682.9	582.0	518.1	477.7	457.5	450.8
15°	975.6	935.2	867.9	814.1	713.2	561.8	430.6	359.9	336.4	339.8	343.1
17.5°	1015.9	972.2	898.2	807.4	612.2	417.1	316.2	299.4	309.5	319.6	319.6
20°	1056.3	1009.2	928.5	756.9	481.1	309.5	282.6	285.9	296.0	306.1	306.1
22.5°	1110.1	1059.7	958.7	669.4	356.6	269.1	269.1	275.8	282.6	292.7	292.7
25°	1167.3	1116.8	978.9	561.8	265.8	252.3	255.7	262.4	269.1	279.2	279.2
27.5°	1227.9	1177.4	975.6	434.0	232.1	232.1	235.5	245.6	252.3	262.4	262.4
30°	1295.1	1251.4	938.6	316.2	215.3	211.9	211.9	222.0	232.1	238.8	242.2
32.5°	1352.3	1315.3	874.6	238.8	201.8	195.1	191.7	195.1	205.2	211.9	215.3
35°	1399.4	1386.0	780.4	205.2	188.4	178.3	171.6	168.2	171.6	171.6	174.9
37.5°	1486.9	1490.2	669.4	191.7	178.3	164.8	151.4	141.3	134.6	131.2	127.8
40°	1651.7	1648.4	551.7	181.7	168.2	151.4	131.2	117.7	100.9	94.2	94.2
42.5°	1883.8	1833.4	420.5	171.6	158.1	137.9	111.0	90.8	74.0	70.6	70.6
45°	2301.0	2092.4	316.2	164.8	148.0	121.1	90.8	67.3	57.2	53.8	53.8
47.5°	2761.8	2391.8	252.3	154.7	137.9	107.6	70.6	53.8	43.7	43.7	43.7
50°	3269.8	2677.7	211.9	144.7	121.1	90.8	57.2	43.7	40.4	37.0	40.4
52.5°	3824.9	2903.1	185.0	131.2	104.3	74.0	47.1	40.4	33.6	33.6	33.6
55°	4322.7	3054.5	154.7	114.4	87.5	60.6	43.7	33.6	30.3	26.9	23.5
57.5°	4773.5	3135.2	124.5	97.6	67.3	50.5	37.0	26.9	23.5	16.8	16.8
60°	5005.6	3061.2	97.6	77.4	53.8	40.4	30.3	23.5	16.8	10.1	10.1
62.5°	5042.6	2869.5	77.4	60.6	47.1	33.6	23.5	16.8	10.1	6.7	6.7
65°	4719.7	2533.1	63.9	50.5	37.0	26.9	20.2	13.5	6.7	3.4	3.4
67°	4141.1	2179.9	57.2	43.7	33.6	23.5	16.8	10.1	6.7	3.4	0.0
67.5°	4026.7	2116.0	53.8	43.7	33.6	23.5	16.8	10.1	6.7	3.4	0.0
70°	2644.1	1463.3	50.5	40.4	30.3	20.2	13.5	10.1	3.4	0.0	0.0
72.5°	1443.2	736.7	47.1	37.0	26.9	20.2	13.5	6.7	3.4	0.0	0.0
75°	528.1	279.2	40.4	33.6	23.5	20.2	13.5	6.7	3.4	0.0	0.0
77.5°	178.3	97.6	37.0	33.6	26.9	20.2	13.5	6.7	3.4	0.0	0.0
80°	60.6	43.7	30.3	26.9	20.2	16.8	13.5	6.7	3.4	0.0	0.0
82.5°	23.5	13.5	10.1	10.1	10.1	13.5	13.5	10.1	3.4	0.0	0.0
85°	10.1	6.7	3.4	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	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)