

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: P572954

Luminaire Tested: **ARCH-S-PA2-130-830-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572954
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-PA2-130-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1295mA 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: 9586 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

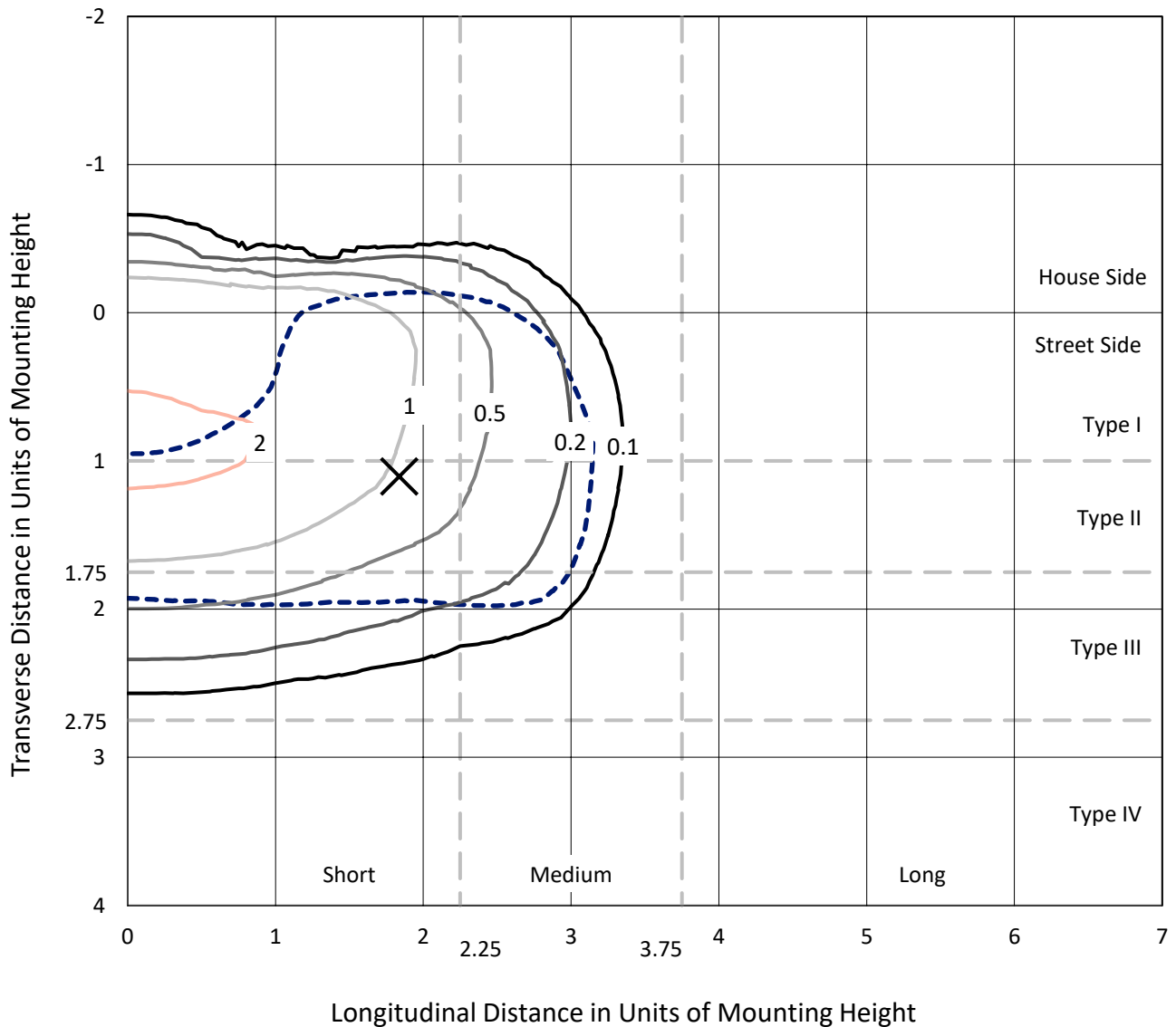
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

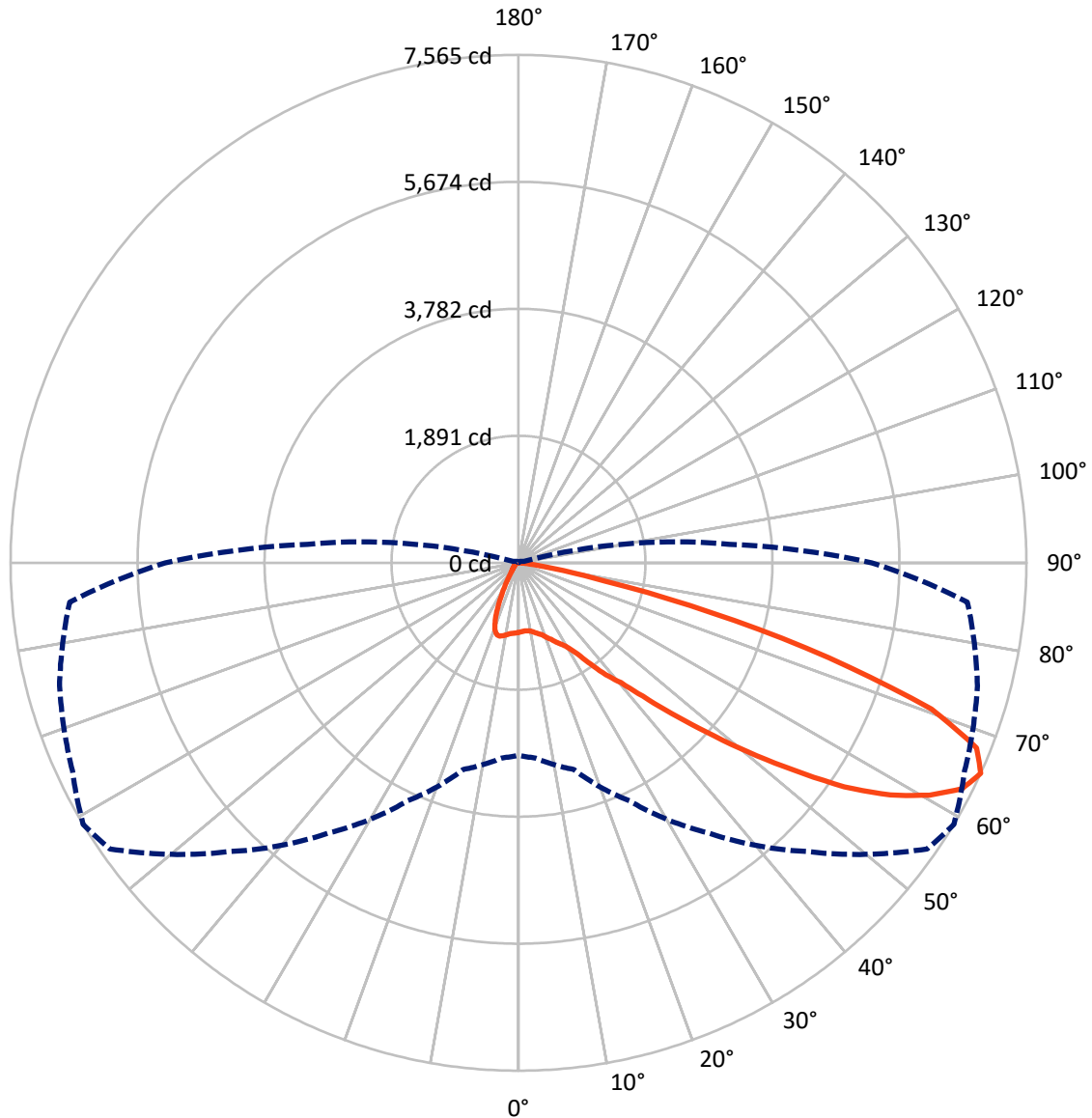
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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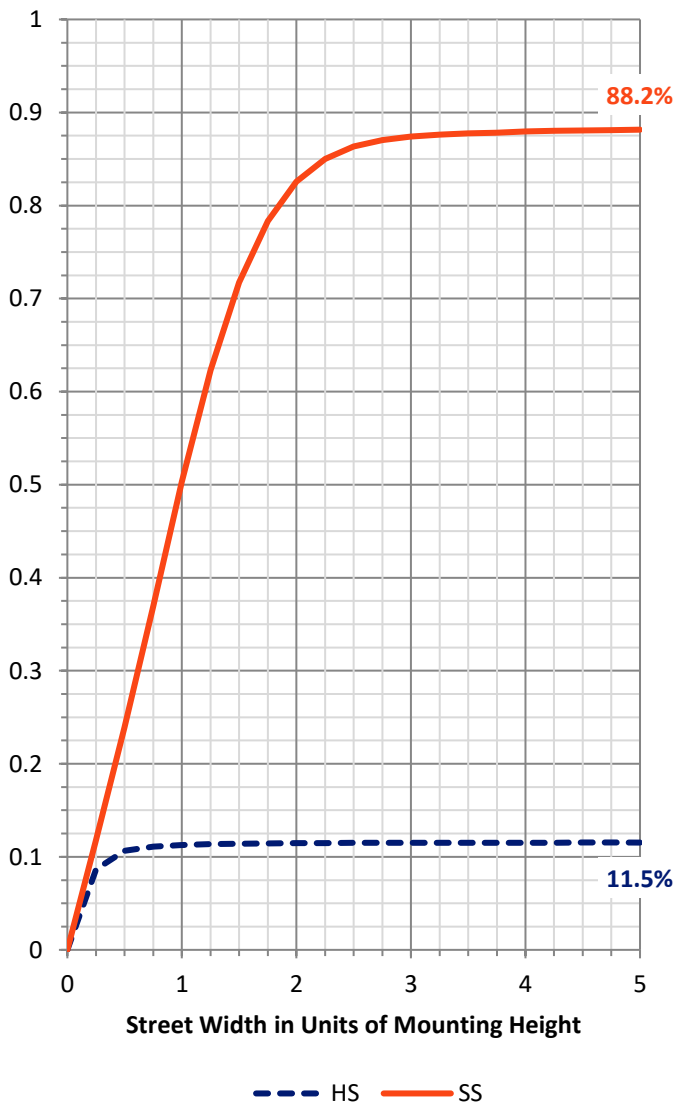
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1118.3	0.0	1118.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	8467.7	0.0	8467.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	9586.0	0.0	9586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	1.0
10°-20°	278.1	2.9
20°-30°	472.3	4.9
30°-40°	836.6	8.7
40°-50°	1578.2	16.5
50°-60°	2670.3	27.9
60°-70°	2776.3	29.0
70°-80°	832.6	8.7
80°-90°	43.7	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°	9586.0	100.0
0°-180°	9586.0	100.0

Coefficient of Utilization



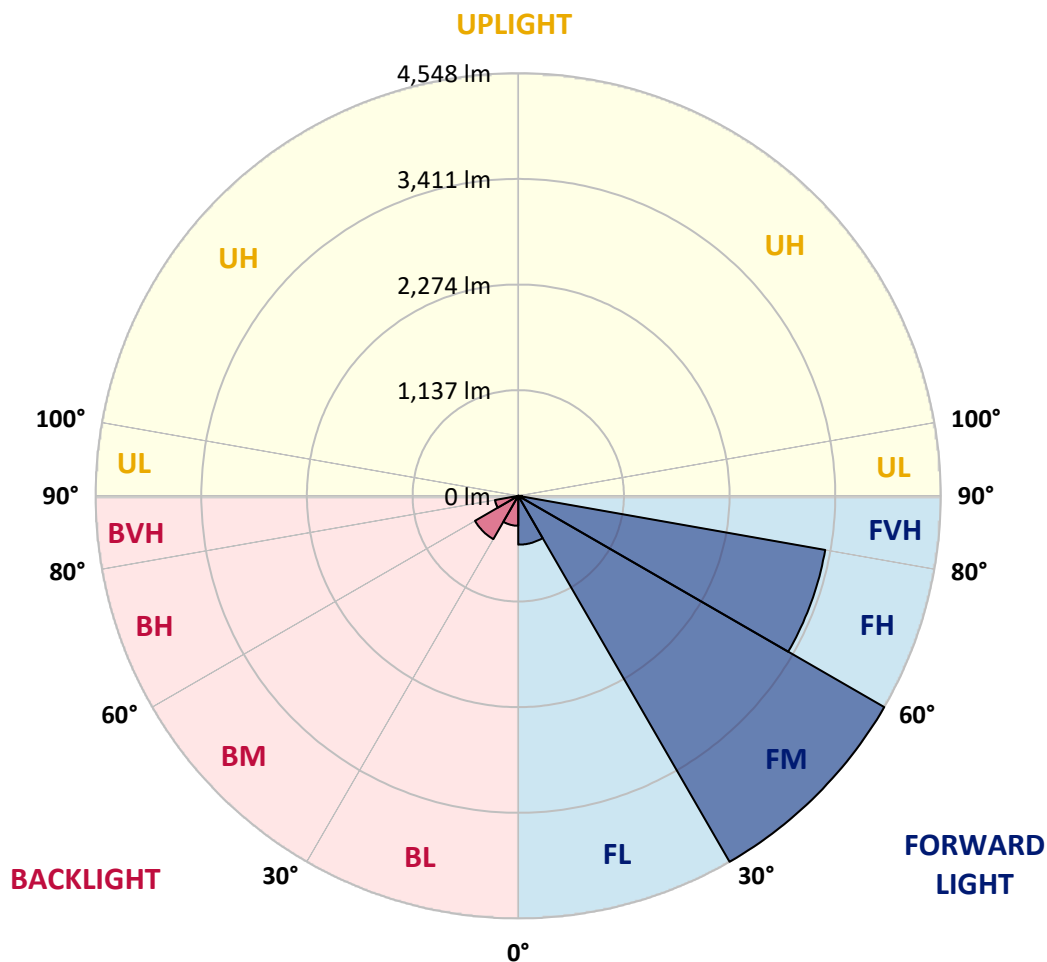
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	525.7	5.5			
FM	(30°-60°)	4547.6	47.4			
FH	(60°-80°)	3354.4	35.0			G2/5000
FVH	(80°-90°)	40.0	0.4			G1/100
BL	(0°-30°)	322.6	3.4	B1/500		
BM	(30°-60°)	537.6	5.6	B1/1000		
BH	(60°-80°)	254.5	2.7	B1/500		G1/500
BVH	(80°-90°)	3.7	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°	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9
2.5°	1008.0	1004.5	1004.5	1011.4	1014.9	1018.4	1025.4	1025.4	1025.4	1032.4	1035.9
5°	959.1	959.1	962.6	969.6	983.5	994.0	1014.9	1018.4	1021.9	1039.4	1046.3
7.5°	927.7	927.7	931.2	945.2	962.6	987.0	1014.9	1021.9	1032.4	1056.8	1074.2
10°	924.3	920.8	927.7	941.7	962.6	994.0	1025.4	1035.9	1056.8	1088.2	1112.6
12.5°	934.7	931.2	938.2	952.2	973.1	1004.5	1046.3	1063.8	1088.2	1130.0	1164.9
15°	941.7	938.2	945.2	962.6	987.0	1025.4	1074.2	1095.2	1126.5	1185.8	1220.7
17.5°	962.6	959.1	962.6	976.6	1001.0	1042.8	1105.6	1126.5	1178.9	1245.1	1283.5
20°	1056.8	1053.3	1032.4	1025.4	1028.9	1067.3	1147.5	1182.3	1245.1	1328.8	1356.7
22.5°	1252.1	1238.2	1199.8	1137.0	1095.2	1109.1	1199.8	1238.2	1321.9	1416.0	1437.0
25°	1513.7	1503.2	1447.4	1339.3	1220.7	1185.8	1259.1	1311.4	1412.5	1517.2	1510.2
27.5°	1810.1	1789.2	1736.9	1586.9	1426.5	1311.4	1332.3	1377.7	1489.3	1600.9	1566.0
30°	2068.2	2061.3	2002.0	1876.4	1688.1	1517.2	1443.9	1468.3	1569.5	1688.1	1646.2
32.5°	2305.4	2284.5	2235.6	2117.1	1942.7	1768.3	1621.8	1621.8	1705.5	1845.0	1782.2
35°	2567.0	2553.0	2493.7	2375.2	2207.7	2002.0	1869.4	1855.5	1925.2	2082.2	1946.2
37.5°	2835.5	2800.7	2772.8	2650.7	2483.3	2305.4	2145.0	2113.6	2148.5	2263.6	2096.1
40°	3170.4	3170.4	3107.6	2996.0	2839.0	2650.7	2427.5	2347.3	2336.8	2486.8	2357.7
42.5°	3561.0	3550.5	3498.2	3393.6	3243.6	3069.2	2786.7	2713.5	2706.5	2887.9	2734.4
45°	4010.9	4003.9	3941.2	3854.0	3749.3	3557.5	3278.5	3205.2	3163.4	3372.7	3191.3
47.5°	4422.5	4398.1	4377.1	4387.6	4328.3	4112.1	3850.5	3763.3	3759.8	3923.7	3690.0
50°	4705.0	4691.0	4764.3	4834.0	4945.6	4809.6	4499.2	4422.5	4363.2	4579.4	4209.7
52.5°	4889.8	4882.9	5029.3	5228.1	5458.3	5447.9	5172.3	5127.0	5078.2	5137.5	4673.6
55°	4963.1	4963.1	5137.5	5503.7	5908.3	6082.6	5953.6	5890.8	5719.9	5597.8	5182.8
57.5°	4875.9	4865.4	5092.1	5569.9	6187.3	6546.5	6602.3	6529.1	6260.5	6124.5	5747.8
60°	4506.2	4513.2	4781.7	5385.1	6166.3	6734.9	7094.1	7027.8	6759.3	6557.0	6222.2
62.5°	3815.6	3874.9	4157.4	4813.1	5719.9	6584.9	7376.6	7411.5	7122.0	6870.9	6644.2
65°	2866.9	2919.2	3187.8	3913.3	4907.3	6082.6	7428.9	7564.9	7331.3	7076.7	6710.4
67.5°	1743.9	1761.3	2089.2	2636.7	3613.3	5067.7	7062.7	7359.2	7191.7	6773.2	6054.7
70°	812.6	858.0	1018.4	1440.4	2288.0	3731.9	6103.6	6522.1	6333.8	5814.1	4603.8
72.5°	317.4	331.3	432.5	666.2	1213.7	2347.3	4555.0	4834.0	4705.0	4129.5	2744.9
75°	156.9	167.4	209.3	317.4	554.6	969.6	2783.2	2964.6	2751.8	2075.2	1161.4
77.5°	115.1	115.1	139.5	195.3	303.4	359.2	1171.9	1314.9	1241.6	802.2	317.4
80°	76.7	83.7	97.7	132.5	191.8	174.4	442.9	526.7	439.5	247.6	111.6
82.5°	45.3	48.8	73.2	94.2	129.0	101.1	150.0	167.4	181.4	122.1	52.3
85°	24.4	24.4	48.8	69.8	69.8	45.3	52.3	59.3	69.8	73.2	27.9
87.5°	7.0	7.0	31.4	41.9	27.9	24.4	27.9	27.9	31.4	38.4	14.0
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°	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9	1035.9
2.5°	1039.4	1039.4	1042.8	1042.8	1046.3	1046.3	1046.3	1046.3	1049.8	1053.3	1053.3
5°	1049.8	1053.3	1053.3	1053.3	1053.3	1046.3	1042.8	1039.4	1039.4	1042.8	1042.8
7.5°	1077.7	1081.2	1077.7	1070.7	1060.3	1046.3	1032.4	1032.4	1028.9	1032.4	1028.9
10°	1119.6	1119.6	1116.1	1098.6	1081.2	1053.3	1025.4	1004.5	990.5	987.0	980.1
12.5°	1171.9	1171.9	1161.4	1130.0	1098.6	1046.3	973.1	903.3	847.5	823.1	816.1
15°	1224.2	1224.2	1210.3	1164.9	1102.1	976.6	823.1	676.6	592.9	558.0	537.1
17.5°	1287.0	1280.0	1255.6	1192.8	1063.8	837.1	589.4	439.5	373.2	341.8	341.8
20°	1353.2	1346.3	1300.9	1196.3	966.1	599.9	383.7	303.4	286.0	279.0	279.0
22.5°	1426.5	1409.1	1339.3	1168.4	760.3	408.1	289.5	268.6	261.6	258.1	258.1
25°	1485.8	1457.9	1367.2	1091.7	544.1	286.0	254.6	247.6	233.7	230.2	223.2
27.5°	1531.1	1489.3	1377.7	927.7	359.2	237.2	226.7	212.8	198.8	184.9	184.9
30°	1590.4	1538.1	1384.6	722.0	244.1	205.8	195.3	177.9	160.4	146.5	146.5
32.5°	1709.0	1632.3	1388.1	505.7	202.3	181.4	160.4	139.5	122.1	115.1	111.6
35°	1838.0	1733.4	1349.8	327.8	177.9	153.5	129.0	111.6	94.2	90.7	90.7
37.5°	1981.0	1883.4	1266.1	223.2	156.9	129.0	104.6	87.2	76.7	73.2	73.2
40°	2221.7	2106.6	1126.5	177.9	136.0	108.1	87.2	73.2	66.3	62.8	62.8
42.5°	2567.0	2368.2	952.2	153.5	118.6	90.7	69.8	59.3	55.8	52.3	52.3
45°	2964.6	2661.2	749.9	139.5	104.6	76.7	59.3	52.3	48.8	45.3	45.3
47.5°	3421.5	2964.6	592.9	122.1	90.7	66.3	52.3	45.3	41.9	38.4	38.4
50°	3854.0	3201.8	446.4	108.1	80.2	55.8	45.3	41.9	38.4	34.9	34.9
52.5°	4209.7	3362.2	338.3	94.2	69.8	48.8	41.9	38.4	31.4	31.4	31.4
55°	4638.7	3487.8	258.1	83.7	62.8	45.3	38.4	31.4	27.9	24.4	24.4
57.5°	5011.9	3533.1	188.3	73.2	55.8	41.9	34.9	27.9	20.9	17.4	17.4
60°	5263.0	3494.7	136.0	62.8	48.8	34.9	27.9	20.9	14.0	10.5	10.5
62.5°	5440.9	3411.0	104.6	55.8	41.9	31.4	24.4	17.4	10.5	7.0	7.0
65°	5263.0	3152.9	83.7	48.8	34.9	27.9	17.4	14.0	7.0	3.5	3.5
67.5°	4551.5	2643.7	66.3	41.9	31.4	24.4	17.4	10.5	3.5	0.0	0.0
70°	3271.5	1886.9	55.8	38.4	27.9	20.9	14.0	7.0	3.5	0.0	0.0
72.5°	1824.1	973.1	52.3	34.9	27.9	20.9	14.0	7.0	3.5	0.0	0.0
75°	739.4	334.8	48.8	34.9	27.9	17.4	14.0	7.0	3.5	0.0	0.0
77.5°	216.2	115.1	41.9	31.4	27.9	20.9	14.0	7.0	3.5	0.0	0.0
80°	76.7	52.3	31.4	27.9	20.9	17.4	14.0	10.5	3.5	0.0	0.0
82.5°	34.9	20.9	14.0	10.5	10.5	10.5	10.5	7.0	3.5	0.0	0.0
85°	14.0	10.5	7.0	3.5	3.5	3.5	3.5	3.5	3.5	0.0	0.0
87.5°	10.5	7.0	3.5	3.5	3.5	3.5	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)