

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: P573414

Luminaire Tested: **ARCH-S-PA2-70-750-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-70-750-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10707 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

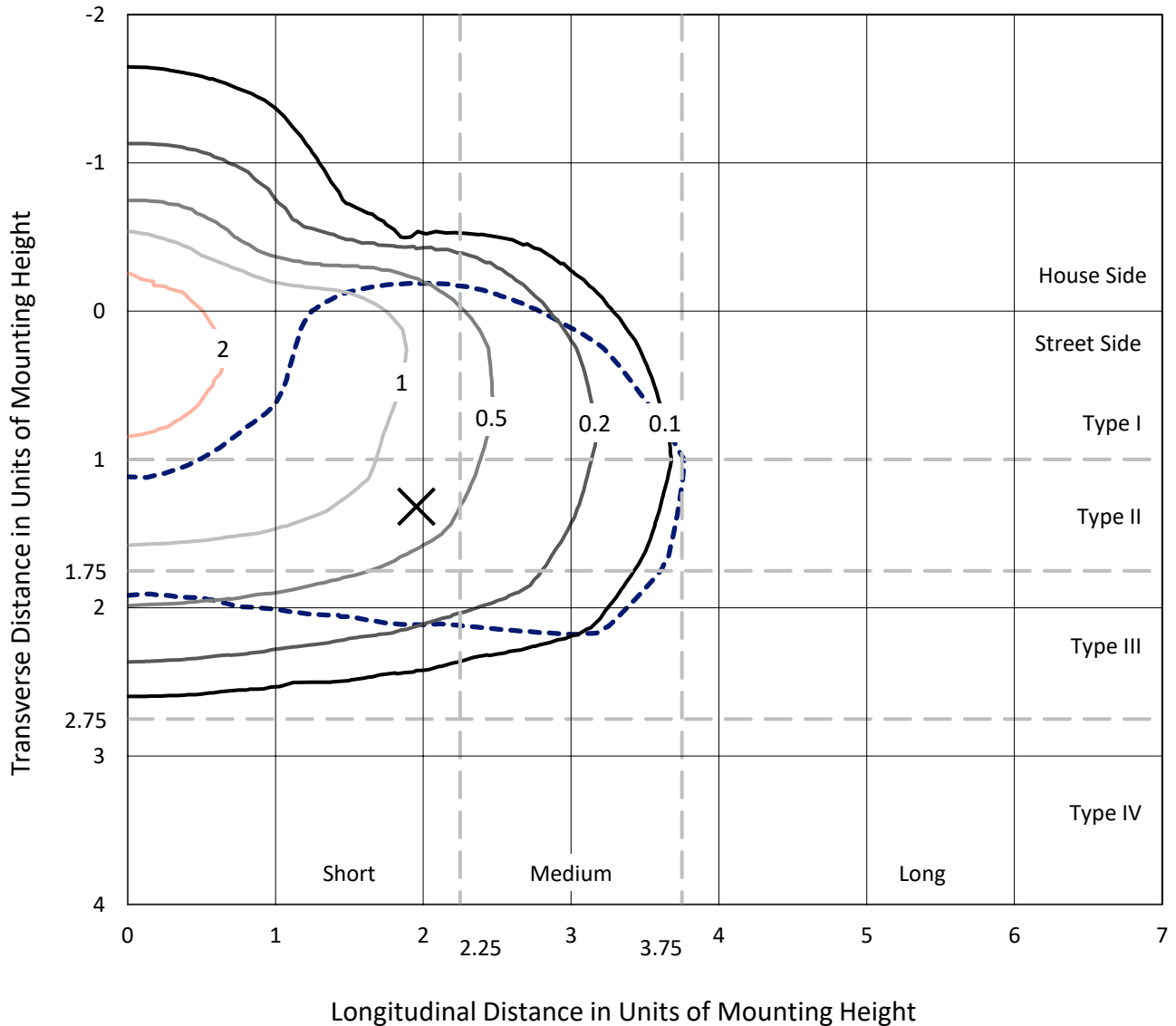
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

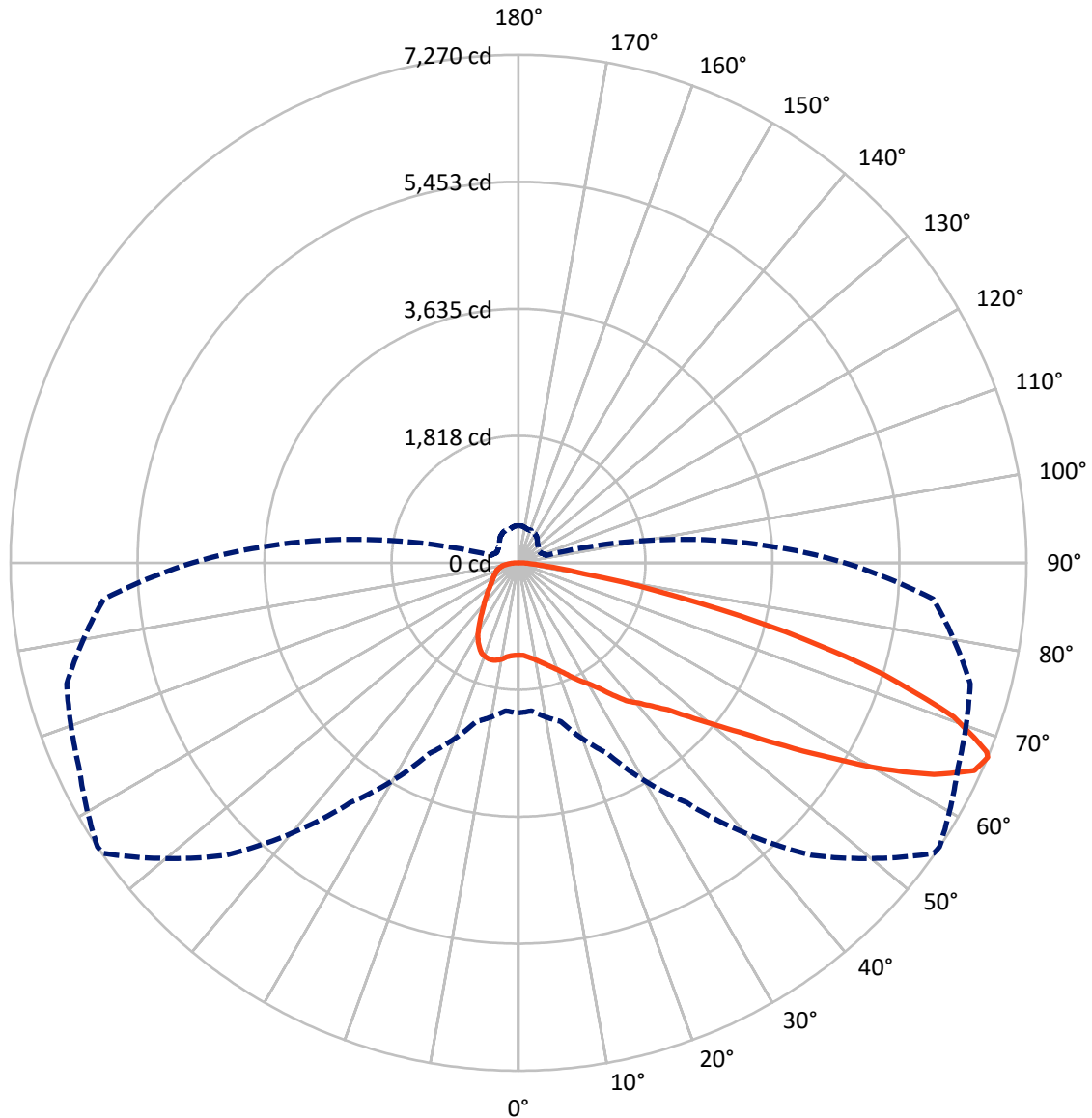
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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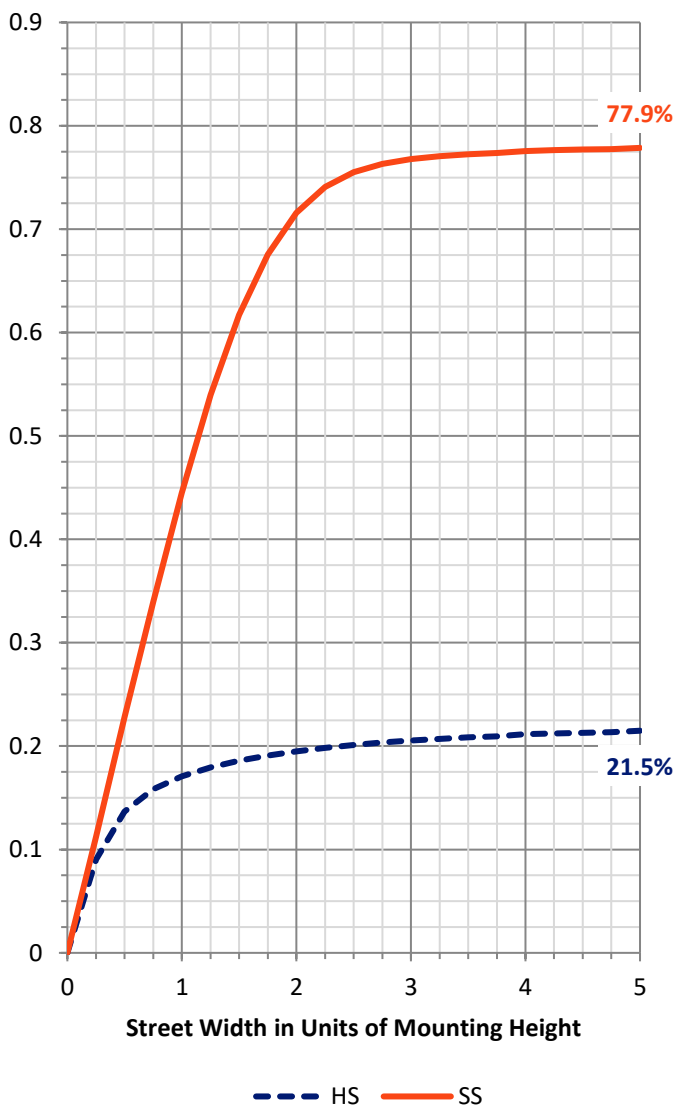
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2342.5	0.0	2342.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8364.5	0.0	8364.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	10707.0	0.0	10707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	1.2
10°-20°	417.1	3.9
20°-30°	725.9	6.8
30°-40°	1064.3	9.9
40°-50°	1557.2	14.5
50°-60°	2433.7	22.7
60°-70°	2892.6	27.0
70°-80°	1317.4	12.3
80°-90°	168.9	1.6
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°	10707.0	100.0
0°-180°	10707.0	100.0

Coefficient of Utilization

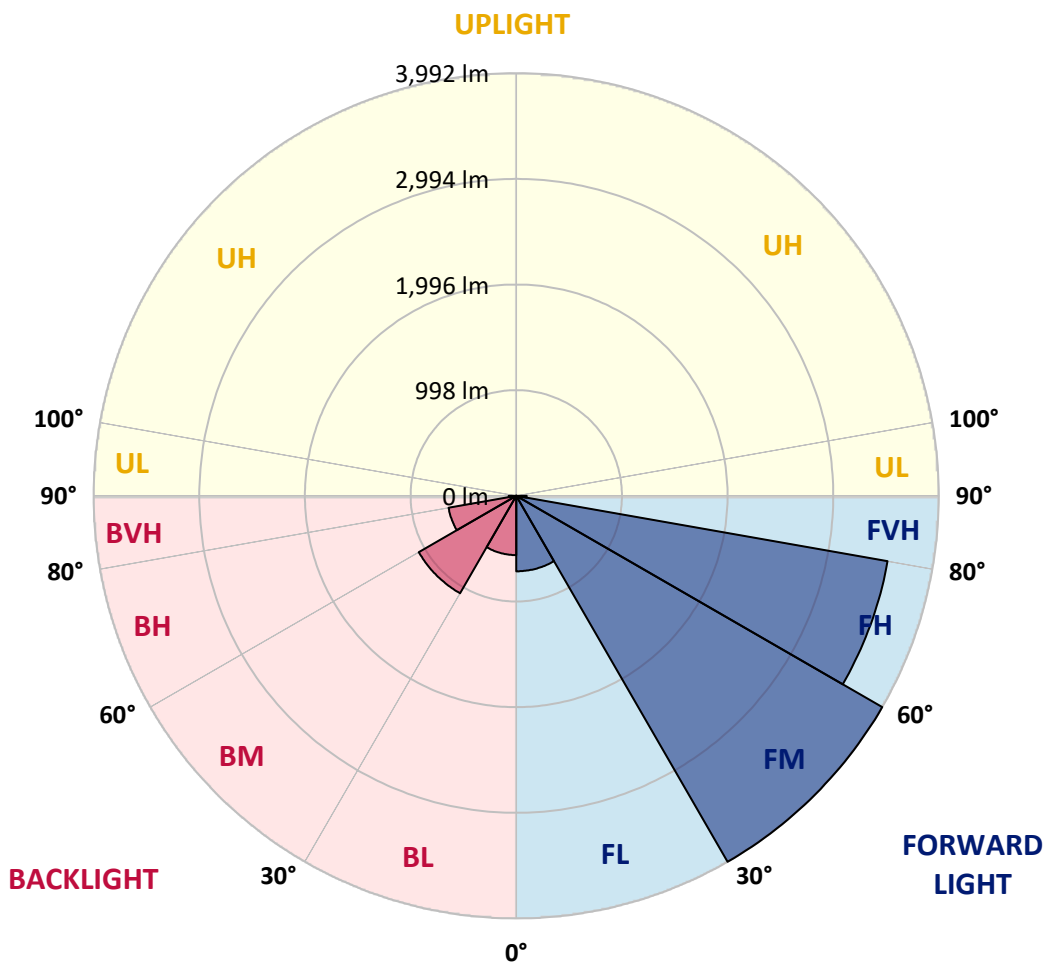


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.2	6.7			
FM (30°-60°)	3991.9	37.3			
FH (60°-80°)	3561.0	33.3			G2/5000
FVH (80°-90°)	98.5	0.9			G1/100
BL (0°-30°)	559.8	5.2	B2/1000		
BM (30°-60°)	1063.3	9.9	B2/2500		
BH (60°-80°)	648.9	6.1	B2/1000		G2/1000
BVH (80°-90°)	70.4	0.7			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°	56°	65°	75°	85°
0°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
2.5°	1342.2	1336.4	1333.5	1336.4	1333.5	1327.7	1330.6	1327.7	1324.8	1321.9	1321.9
5°	1359.6	1353.8	1350.9	1353.8	1356.7	1350.9	1350.9	1350.9	1342.2	1339.3	1333.5
7.5°	1371.2	1362.5	1362.5	1368.3	1374.1	1377.0	1382.8	1379.9	1371.2	1365.4	1353.8
10°	1408.9	1397.3	1397.3	1397.3	1403.1	1408.9	1414.7	1417.6	1414.7	1411.8	1403.1
12.5°	1466.8	1455.2	1455.2	1455.2	1455.2	1452.3	1461.0	1463.9	1469.7	1469.7	1455.2
15°	1545.1	1530.6	1524.8	1513.2	1510.3	1504.5	1516.1	1516.1	1524.8	1527.7	1513.2
17.5°	1620.5	1603.1	1597.3	1585.7	1574.1	1559.6	1571.2	1574.1	1591.5	1594.4	1571.2
20°	1698.8	1693.0	1684.3	1666.9	1646.6	1632.1	1643.7	1640.8	1655.3	1661.1	1632.1
22.5°	1800.2	1785.7	1779.9	1756.7	1733.5	1719.0	1719.0	1724.8	1739.3	1739.3	1695.9
25°	1922.0	1901.7	1887.2	1861.1	1832.1	1814.7	1817.6	1823.4	1843.7	1829.2	1762.5
27.5°	2072.7	2052.4	2032.1	1979.9	1951.0	1916.2	1913.3	1919.1	1951.0	1913.3	1826.3
30°	2214.8	2206.1	2188.7	2148.1	2101.7	2043.7	2017.6	2020.5	2043.7	1991.5	1881.4
32.5°	2336.5	2324.9	2316.2	2287.2	2255.3	2185.8	2151.0	2153.9	2151.0	2087.2	1948.1
35°	2481.5	2464.1	2458.3	2432.2	2391.6	2345.2	2330.7	2324.9	2307.5	2220.6	2035.0
37.5°	2620.6	2603.2	2594.5	2580.0	2548.1	2507.5	2507.5	2504.6	2469.9	2348.1	2122.0
40°	2785.8	2765.5	2739.5	2730.8	2704.7	2675.7	2652.5	2638.0	2577.1	2467.0	2290.1
42.5°	2985.9	2974.3	2959.8	2922.1	2881.5	2875.7	2809.0	2803.2	2759.7	2696.0	2527.8
45°	3272.8	3249.7	3229.4	3217.8	3168.5	3116.3	3023.5	3000.4	3000.4	2985.9	2806.1
47.5°	3562.7	3522.2	3551.1	3542.4	3530.9	3472.9	3293.1	3296.0	3290.2	3327.9	3214.9
50°	3757.0	3733.8	3814.9	3852.6	3933.8	3933.8	3675.8	3643.9	3667.1	3777.3	3632.3
52.5°	3907.7	3893.2	3986.0	4133.8	4374.4	4397.6	4130.9	4064.2	4096.1	4252.7	4194.7
55°	4029.5	4015.0	4122.2	4380.2	4765.8	4907.8	4655.6	4626.6	4562.9	4731.0	4748.4
57.5°	4101.9	4070.0	4232.4	4577.4	5084.7	5412.2	5270.2	5261.5	5113.6	5270.2	5348.5
60°	3991.8	3971.5	4194.7	4658.5	5342.7	5887.7	5992.0	5992.0	5728.2	5812.3	5907.9
62.5°	3635.2	3609.1	3843.9	4470.1	5374.5	6276.1	6708.0	6673.3	6319.6	6316.7	6232.6
65°	2956.9	2925.0	3188.8	3849.7	4971.6	6322.5	7192.2	7171.9	6763.1	6647.2	6252.9
67°	2148.1	2127.8	2353.9	3009.1	4188.9	5919.5	7253.0	7270.4	6939.9	6693.5	5960.1
67.5°	1927.8	1924.9	2113.3	2762.6	3959.9	5771.7	7212.4	7229.8	6937.0	6655.9	5844.2
70°	898.7	939.2	1116.1	1582.8	2669.9	4545.5	6545.7	6612.4	6566.0	6221.0	4922.3
72.5°	417.4	434.8	513.1	765.3	1435.0	2930.8	5305.0	5464.4	5667.3	5336.9	3899.0
75°	258.0	263.8	307.3	397.1	675.4	1408.9	3777.3	3951.2	4258.5	4015.0	2493.0
77.5°	202.9	205.8	234.8	284.1	394.2	605.9	2072.7	2290.1	2690.2	2374.2	1255.2
80°	150.7	156.5	179.7	220.3	278.3	310.2	881.3	962.4	1298.7	994.3	521.8
82.5°	110.2	116.0	139.1	159.4	194.2	197.1	359.5	379.8	556.6	402.9	226.1
85°	92.8	92.8	107.3	118.9	130.5	110.2	176.8	173.9	214.5	182.6	89.9
87.5°	43.5	46.4	101.5	75.4	63.8	46.4	52.2	55.1	66.7	72.5	34.8
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°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
2.5°	1319.0	1319.0	1319.0	1321.9	1324.8	1324.8	1327.7	1327.7	1330.6	1333.5	1339.3
5°	1330.6	1330.6	1327.7	1330.6	1336.4	1339.3	1345.1	1350.9	1356.7	1362.5	1365.4
7.5°	1353.8	1350.9	1350.9	1350.9	1356.7	1362.5	1371.2	1377.0	1385.7	1388.6	1394.4
10°	1397.3	1391.5	1391.5	1394.4	1397.3	1388.6	1385.7	1382.8	1391.5	1397.3	1403.1
12.5°	1449.4	1443.6	1440.7	1432.1	1420.5	1403.1	1388.6	1377.0	1379.9	1385.7	1394.4
15°	1504.5	1492.9	1487.1	1466.8	1437.9	1400.2	1377.0	1362.5	1362.5	1362.5	1371.2
17.5°	1562.5	1550.9	1527.7	1490.0	1435.0	1382.8	1353.8	1327.7	1316.1	1313.2	1319.0
20°	1617.6	1600.2	1562.5	1504.5	1417.6	1348.0	1310.3	1266.8	1249.4	1237.8	1243.6
22.5°	1669.8	1646.6	1594.4	1504.5	1388.6	1295.8	1229.1	1171.2	1142.2	1136.4	1139.3
25°	1724.8	1695.9	1626.3	1487.1	1324.8	1217.5	1124.8	1063.9	1026.2	1020.4	1029.1
27.5°	1779.9	1736.4	1652.4	1440.7	1252.3	1110.3	1011.7	953.7	933.4	921.8	924.7
30°	1826.3	1785.7	1678.5	1377.0	1153.8	985.6	895.8	869.7	855.2	849.4	849.4
32.5°	1887.2	1849.5	1695.9	1301.6	1037.8	872.6	814.6	794.3	782.7	768.2	771.1
35°	1962.6	1927.8	1687.2	1205.9	927.6	797.2	750.8	721.8	695.7	675.4	672.5
37.5°	2064.0	2037.9	1643.7	1090.0	826.2	742.1	695.7	658.0	620.4	588.5	582.7
40°	2232.1	2171.3	1579.9	962.4	756.6	698.6	643.6	597.2	550.8	516.0	507.3
42.5°	2446.7	2319.1	1492.9	832.0	698.6	652.3	597.2	536.3	492.8	460.9	460.9
45°	2696.0	2478.6	1388.6	733.4	637.8	605.9	539.2	487.0	460.9	440.6	437.7
47.5°	2991.7	2638.0	1255.2	655.1	588.5	565.3	498.6	466.7	449.3	431.9	429.0
50°	3388.8	2852.5	1156.7	588.5	539.2	518.9	487.0	460.9	443.5	431.9	429.0
52.5°	3843.9	3127.9	1087.1	536.3	498.6	489.9	484.1	463.8	446.4	437.7	434.8
55°	4336.7	3467.1	1020.4	492.8	466.7	478.3	489.9	469.6	458.0	446.4	440.6
57.5°	4800.6	3754.1	913.2	455.1	443.5	463.8	487.0	472.5	458.0	449.3	446.4
60°	5116.5	3899.0	765.3	420.3	420.3	443.5	478.3	458.0	443.5	446.4	446.4
62.5°	5218.0	3843.9	605.9	388.5	397.1	420.3	452.2	440.6	434.8	449.3	449.3
65°	5067.3	3620.7	484.1	362.4	374.0	391.4	437.7	449.3	466.7	498.6	501.5
67°	4673.0	3261.3	408.7	342.1	353.7	382.7	455.1	495.7	495.7	530.5	530.5
67.5°	4557.1	3139.5	397.1	336.3	350.8	382.7	463.8	507.3	495.7	536.3	536.3
70°	3704.8	2469.9	336.3	318.9	339.2	402.9	501.5	510.2	484.1	521.8	518.9
72.5°	2748.2	1785.7	307.3	301.5	316.0	379.8	498.6	489.9	452.2	463.8	455.1
75°	1698.8	1034.9	284.1	278.3	287.0	336.3	460.9	446.4	402.9	394.2	385.6
77.5°	820.4	524.7	243.5	252.2	260.9	292.8	405.8	391.4	353.7	333.4	330.5
80°	356.6	269.6	208.7	223.2	226.1	249.3	336.3	318.9	284.1	252.2	252.2
82.5°	176.8	150.7	165.2	185.5	179.7	200.0	263.8	234.8	208.7	173.9	168.1
85°	81.2	87.0	121.8	139.1	121.8	124.7	179.7	165.2	130.5	98.6	101.5
87.5°	29.0	40.6	69.6	84.1	60.9	58.0	95.7	69.6	40.6	11.6	14.5
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)