

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: P572872

Luminaire Tested: **ARCH-S-PA2-120-830-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
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-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12271 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

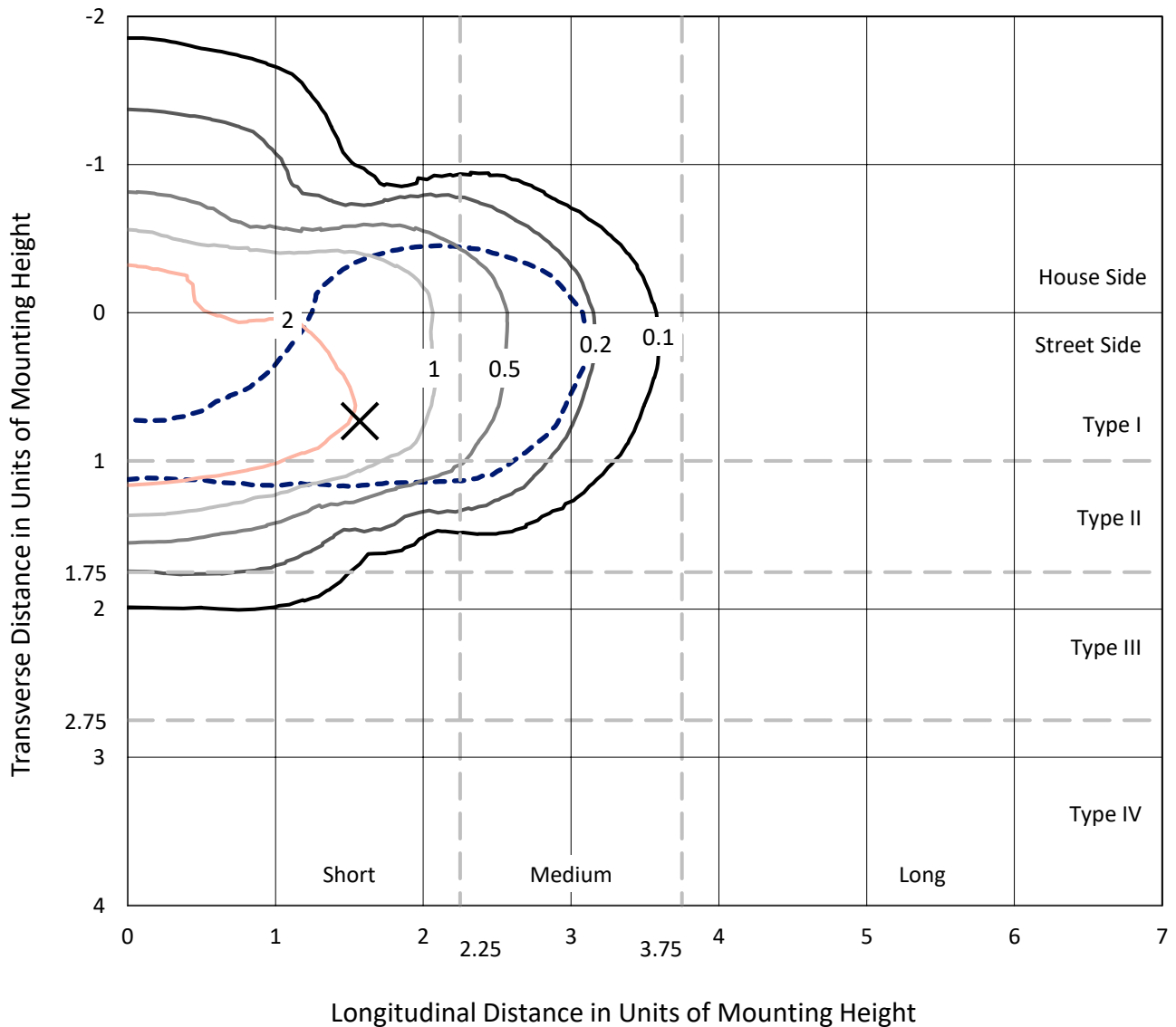
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

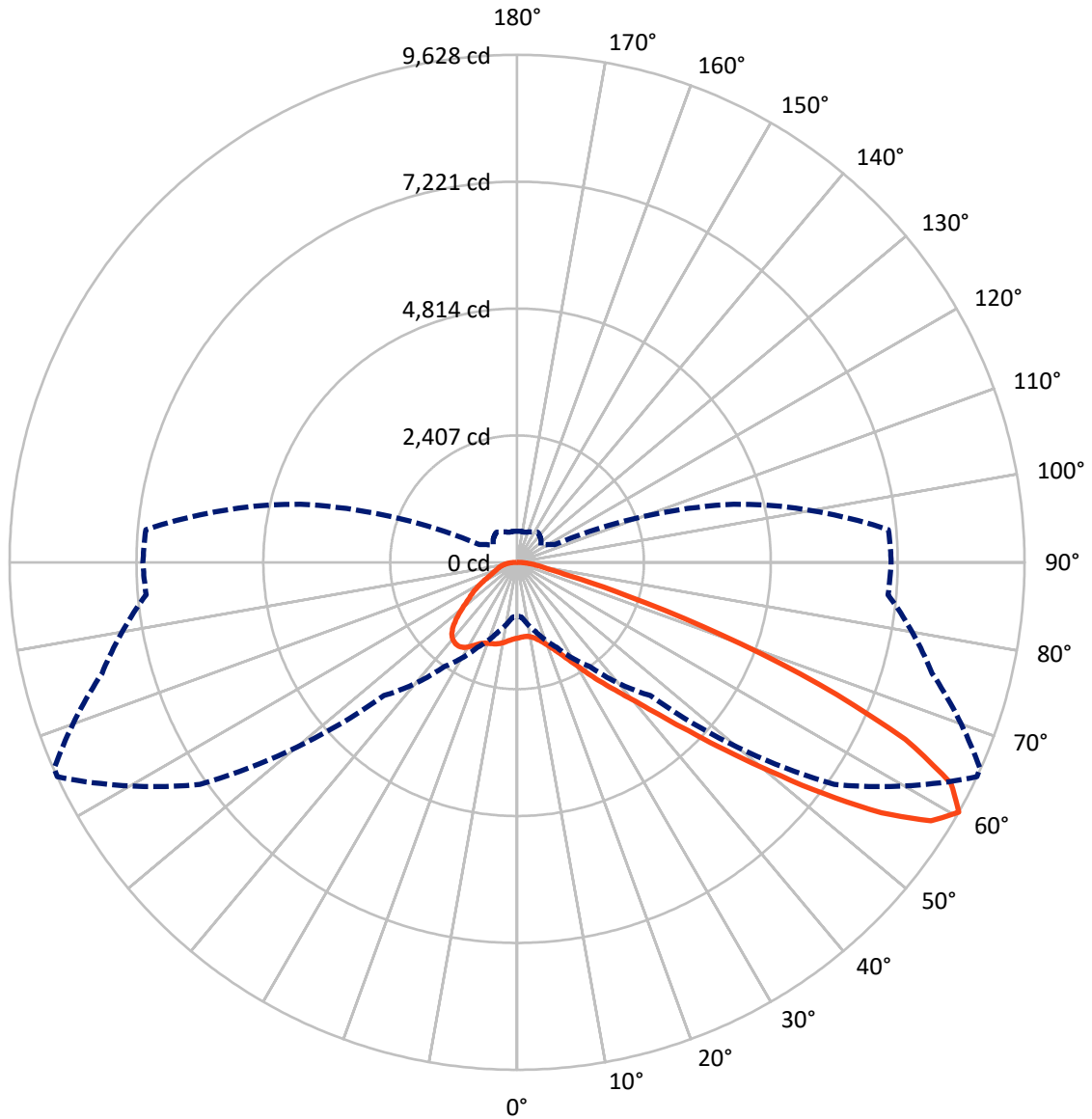
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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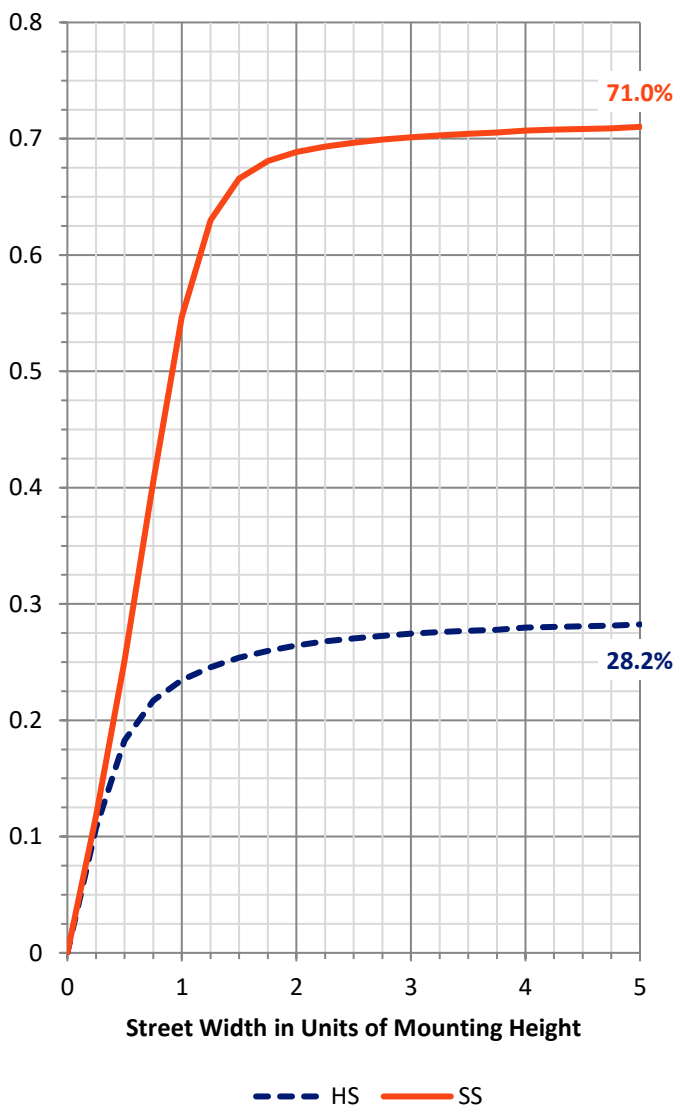
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3512.8	0.0	3512.8
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	8758.2	0.0	8758.2
	% Fixture	71.4	0.0	71.4
Total	Lumens	12271.0	0.0	12271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.1
10°-20°	447.7	3.6
20°-30°	858.2	7.0
30°-40°	1490.5	12.1
40°-50°	2527.9	20.6
50°-60°	3147.7	25.7
60°-70°	2536.5	20.7
70°-80°	960.5	7.8
80°-90°	162.9	1.3
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°	12271.0	100.0
0°-180°	12271.0	100.0

Coefficient of Utilization



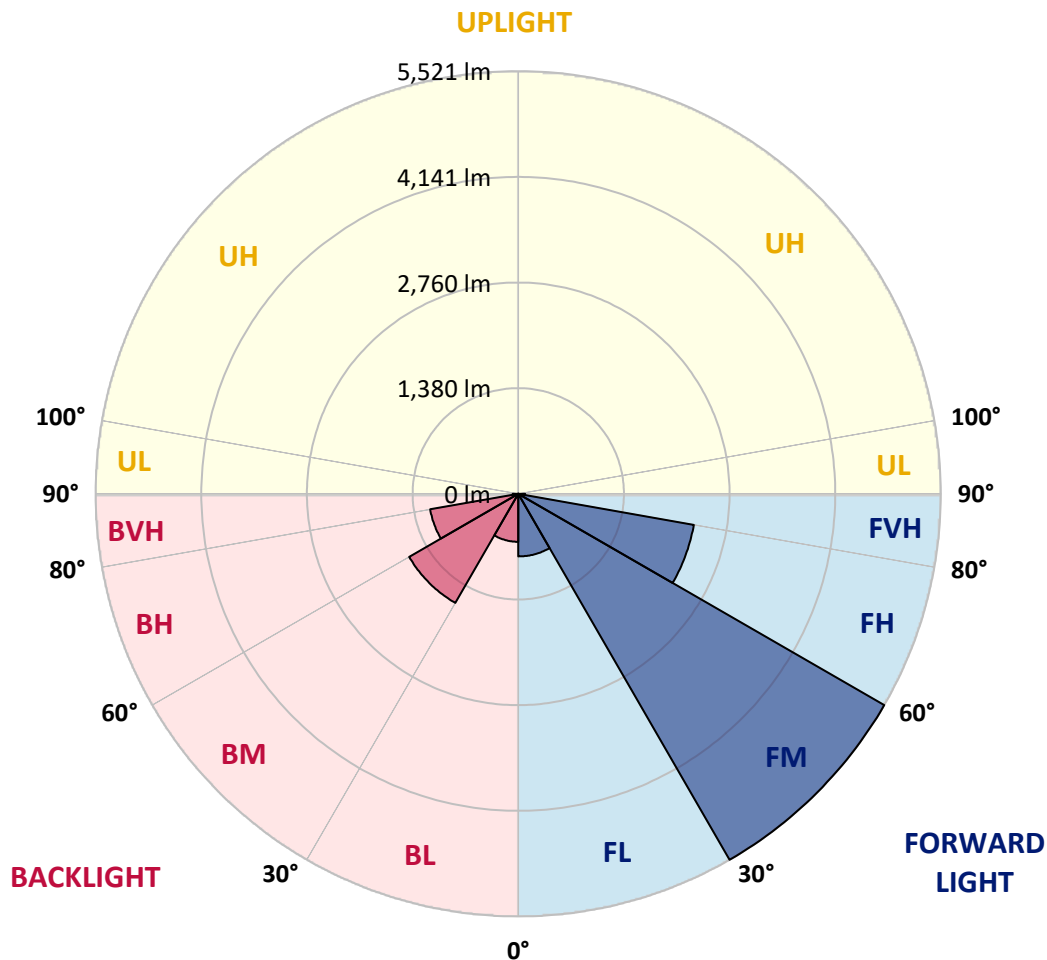
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	818.1	6.7			
FM (30°-60°)	5520.7	45.0			
FH (60°-80°)	2329.0	19.0			G2/5000
FVH (80°-90°)	90.4	0.7			G1/100
BL (0°-30°)	626.9	5.1	B2/1000		
BM (30°-60°)	1645.4	13.4	B2/2500		
BH (60°-80°)	1168.0	9.5	B3/2500		G3/2500
BVH (80°-90°)	72.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8
2.5°	1406.1	1406.1	1406.1	1409.5	1412.8	1416.2	1422.9	1422.9	1422.9	1426.3	1433.0
5°	1379.2	1375.8	1379.2	1382.6	1389.3	1396.0	1409.5	1416.2	1416.2	1429.7	1443.1
7.5°	1382.6	1375.8	1375.8	1379.2	1385.9	1392.7	1406.1	1416.2	1419.6	1436.4	1459.9
10°	1416.2	1406.1	1406.1	1409.5	1409.5	1416.2	1426.3	1439.8	1443.1	1459.9	1483.5
12.5°	1486.9	1476.8	1473.4	1463.3	1453.2	1459.9	1470.0	1473.4	1476.8	1486.9	1510.4
15°	1634.9	1618.0	1591.1	1571.0	1544.0	1527.2	1523.9	1527.2	1527.2	1530.6	1544.0
17.5°	1846.8	1826.6	1786.2	1742.5	1678.6	1624.8	1608.0	1594.5	1594.5	1584.4	1584.4
20°	2105.8	2075.5	2028.4	1964.5	1870.3	1772.8	1715.6	1685.3	1675.2	1658.4	1634.9
22.5°	2405.2	2385.0	2324.5	2226.9	2085.6	1954.4	1860.2	1793.0	1793.0	1752.6	1702.1
25°	2758.4	2721.4	2650.8	2536.4	2344.7	2156.3	2028.4	1930.9	1920.8	1856.9	1776.1
27.5°	3101.5	3078.0	2990.5	2839.1	2610.4	2391.7	2213.5	2099.1	2082.3	1981.3	1856.9
30°	3518.7	3491.7	3360.6	3148.6	2903.1	2654.1	2445.6	2297.6	2280.7	2142.8	1967.9
32.5°	4036.7	3945.9	3784.4	3542.2	3226.0	2946.8	2708.0	2549.9	2529.7	2371.6	2163.0
35°	4665.8	4588.4	4309.2	4053.5	3676.8	3310.1	3024.2	2815.6	2788.7	2600.3	2337.9
37.5°	5109.8	5072.8	4881.0	4679.2	4248.6	3754.1	3404.3	3115.0	3088.1	2839.1	2499.4
40°	5389.0	5352.0	5298.2	5241.0	5002.1	4443.7	3861.8	3468.2	3424.5	3189.0	2822.3
42.5°	5533.6	5503.4	5513.5	5627.8	5695.1	5607.7	4514.4	3939.1	3908.9	3622.9	3215.9
45°	5449.5	5429.4	5526.9	5829.7	6159.3	6805.2	5352.0	4558.1	4477.4	4137.6	3693.6
47.5°	5045.9	4985.3	5214.1	5728.8	6435.2	7377.1	6361.2	5321.7	5234.3	4746.5	4178.0
50°	4215.0	4198.2	4511.0	5163.6	6327.5	7602.5	7441.0	6223.3	6159.3	5402.5	4716.2
52.5°	3441.3	3434.6	3676.8	4275.5	5641.3	7444.4	8224.8	7296.3	7104.6	6061.8	5301.5
55°	2671.0	2667.6	2882.9	3330.3	4500.9	6700.9	8594.8	8389.6	8248.3	6781.7	5903.7
57.5°	1826.6	1803.1	2082.3	2422.0	3380.7	5308.3	8352.6	9254.1	9166.7	7545.3	6542.8
60°	1015.9	1049.5	1359.0	1779.5	2418.7	3575.8	7343.4	9627.5	9614.1	8154.1	7064.2
62.5°	719.9	733.3	864.5	1264.8	1591.1	2048.6	5664.8	9240.7	9348.3	8490.5	7360.3
65°	598.8	605.5	669.4	935.2	1163.9	1184.1	3532.1	8093.6	8234.9	8386.3	7424.2
67.5°	565.1	568.5	602.1	689.6	911.6	857.8	1577.7	6179.5	6478.9	7545.3	7007.0
70°	514.7	518.0	568.5	608.9	736.7	676.1	810.7	4104.0	4507.7	5964.2	6041.6
72.5°	440.7	450.8	491.1	571.9	598.8	561.8	625.7	2193.3	2593.6	3989.6	4665.8
75°	380.1	386.9	417.1	484.4	561.8	447.4	531.5	999.1	1170.6	2341.3	2953.5
77.5°	306.1	309.5	353.2	396.9	470.9	363.3	413.8	598.8	629.1	1143.7	1335.5
80°	232.1	232.1	262.4	316.2	349.8	349.8	302.8	417.1	433.9	545.0	528.1
82.5°	178.3	174.9	198.5	222.0	252.3	292.7	228.7	275.8	282.6	329.7	282.6
85°	117.7	117.7	131.2	151.4	168.2	161.5	178.3	161.5	168.2	205.2	154.7
87.5°	50.5	50.5	70.6	67.3	74.0	77.4	87.5	77.4	77.4	94.2	70.6
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°	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8
2.5°	1436.4	1439.8	1446.5	1449.8	1459.9	1463.3	1463.3	1470.0	1470.0	1476.8	1476.8
5°	1446.5	1456.6	1466.7	1476.8	1486.9	1490.2	1496.9	1500.3	1500.3	1507.0	1503.7
7.5°	1466.7	1476.8	1496.9	1507.0	1520.5	1527.2	1523.9	1527.2	1523.9	1527.2	1527.2
10°	1493.6	1507.0	1530.6	1544.0	1554.1	1557.5	1547.4	1537.3	1523.9	1523.9	1523.9
12.5°	1523.9	1533.9	1564.2	1574.3	1581.0	1571.0	1544.0	1523.9	1513.8	1517.1	1513.8
15°	1554.1	1564.2	1587.8	1597.9	1597.9	1567.6	1544.0	1537.3	1533.9	1537.3	1537.3
17.5°	1584.4	1594.5	1614.7	1614.7	1604.6	1581.0	1557.5	1533.9	1517.1	1507.0	1507.0
20°	1624.8	1624.8	1631.5	1631.5	1628.1	1591.1	1533.9	1476.8	1443.1	1422.9	1419.6
22.5°	1678.6	1665.1	1651.7	1651.7	1665.1	1567.6	1456.6	1369.1	1315.3	1308.6	1295.1
25°	1735.8	1705.5	1671.9	1695.4	1671.9	1507.0	1348.9	1231.2	1167.3	1143.7	1150.5
27.5°	1796.3	1749.2	1698.8	1766.1	1638.2	1389.3	1197.6	1066.4	1005.8	989.0	989.0
30°	1880.4	1809.8	1735.8	1840.1	1574.3	1254.7	1019.3	925.1	891.4	878.0	874.6
32.5°	2041.9	1934.3	1826.6	1907.3	1503.7	1079.8	898.2	841.0	800.6	787.2	797.2
35°	2186.5	2035.2	1964.5	1937.6	1392.7	938.5	824.2	773.7	740.1	723.2	723.2
37.5°	2317.7	2173.1	2119.3	1937.6	1248.0	851.1	777.1	736.7	693.0	679.5	679.5
40°	2603.7	2411.9	2317.7	1910.7	1069.7	807.3	753.5	706.4	669.4	656.0	652.6
42.5°	2997.3	2738.2	2522.9	1850.2	918.3	787.2	740.1	686.2	656.0	645.9	642.5
45°	3414.4	3185.6	2718.0	1742.5	820.8	767.0	736.7	679.5	642.5	632.4	629.1
47.5°	3919.0	3683.5	2943.4	1577.7	753.5	753.5	733.3	669.4	635.8	625.7	625.7
50°	4477.4	4282.3	3229.4	1389.3	703.1	743.4	726.6	669.4	632.4	622.3	619.0
52.5°	5049.2	4958.4	3528.8	1204.3	652.6	730.0	723.2	669.4	625.7	615.6	615.6
55°	5775.8	5701.8	3875.2	1066.4	612.2	703.1	723.2	662.7	615.6	608.9	608.9
57.5°	6489.0	6462.1	4144.3	945.3	582.0	669.4	713.2	652.6	605.5	602.1	602.1
60°	7097.9	7071.0	4258.7	793.9	551.7	635.8	693.0	635.8	588.7	592.0	592.0
62.5°	7474.6	7319.9	4174.6	656.0	521.4	605.5	669.4	615.6	571.9	582.0	578.6
65°	7541.9	7182.0	3848.3	548.3	487.8	571.9	642.5	592.0	548.3	571.9	568.5
67.5°	7047.4	6448.6	3236.1	477.7	454.1	534.9	612.2	558.4	521.4	555.0	545.0
70°	5977.7	5237.6	2395.1	423.9	420.5	491.1	571.9	518.0	484.4	501.2	487.8
72.5°	4450.5	3781.0	1550.8	383.5	383.5	440.7	514.7	467.6	433.9	437.3	423.9
75°	2775.2	2324.5	881.3	346.5	346.5	390.2	457.5	410.4	386.9	373.4	390.2
77.5°	1261.5	1022.6	464.2	309.5	312.8	333.0	393.6	349.8	322.9	302.8	312.8
80°	467.6	417.1	302.8	265.7	272.5	275.8	316.2	279.2	255.7	242.2	235.5
82.5°	242.2	225.4	205.2	211.9	222.0	211.9	245.6	208.6	181.7	171.6	144.6
85°	121.1	117.7	124.5	141.3	154.7	131.2	148.0	134.6	111.0	80.7	80.7
87.5°	47.1	50.5	47.1	63.9	70.6	60.6	67.3	47.1	33.6	16.8	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

(END OF REPORT)