

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: P572809

Luminaire Tested: **ARCH-S-PA2-120-727-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572809
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-PA2-120-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 12914 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

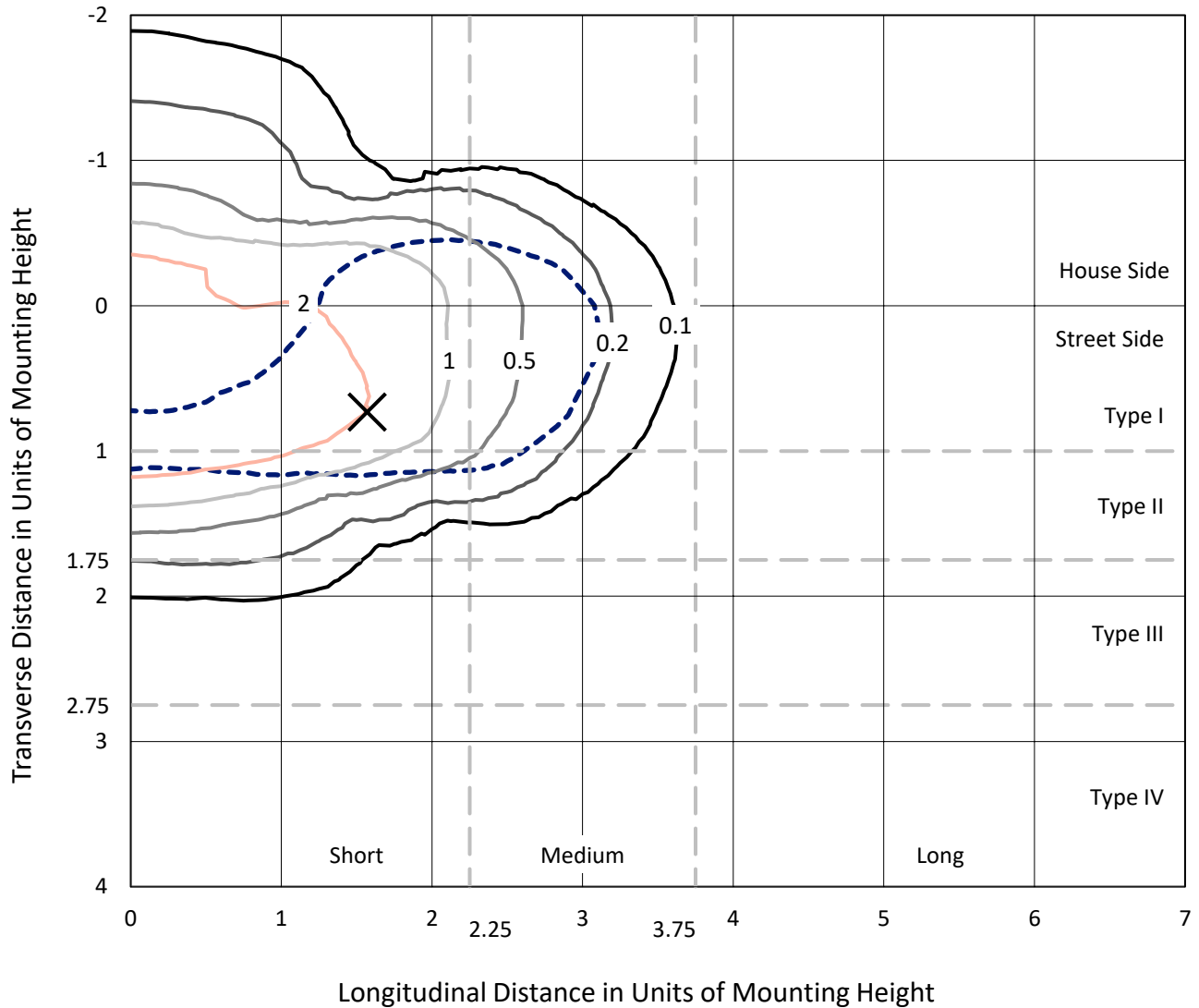
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

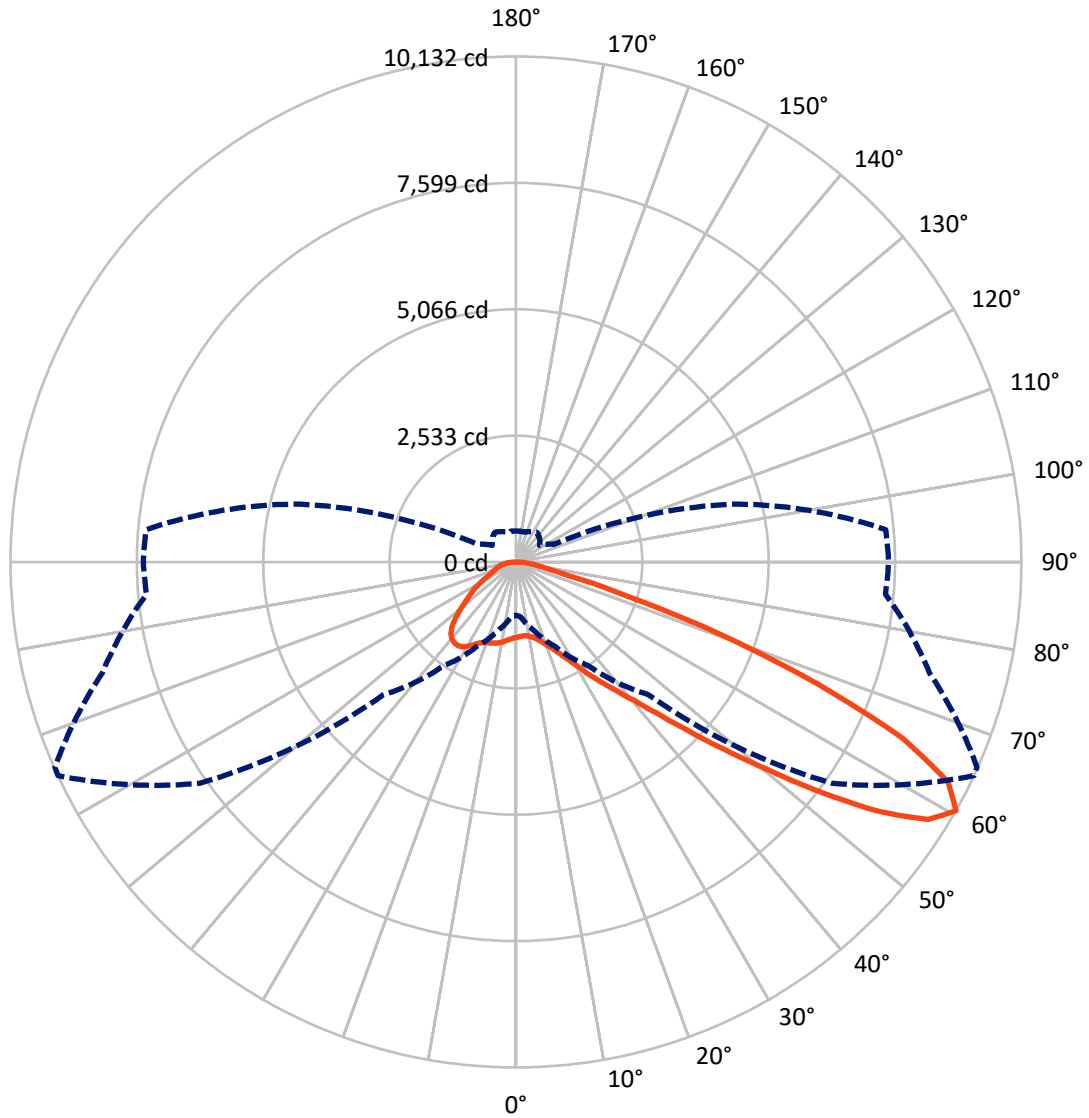
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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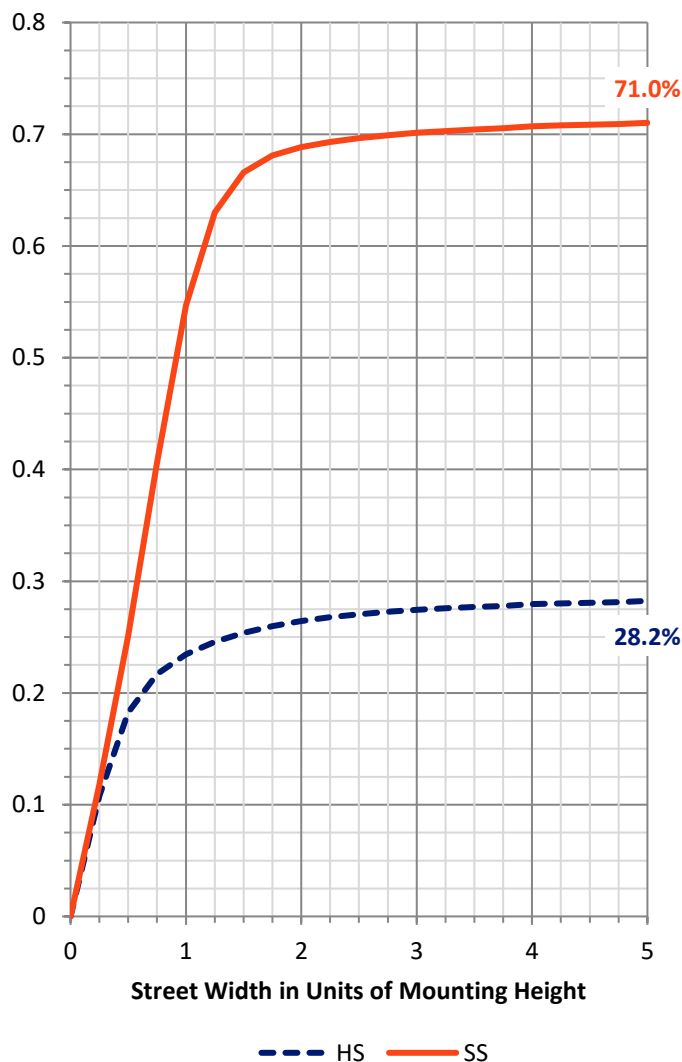
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3696.9	0.0	3696.9
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	9217.1	0.0	9217.1
	% Fixture	71.4	0.0	71.4
Total	Lumens	12914.0	0.0	12914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	1.1
10°-20°	471.1	3.6
20°-30°	903.2	7.0
30°-40°	1568.6	12.1
40°-50°	2660.3	20.6
50°-60°	3312.7	25.7
60°-70°	2669.4	20.7
70°-80°	1010.8	7.8
80°-90°	171.4	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°	12914.0	100.0
0°-180°	12914.0	100.0

Coefficient of Utilization



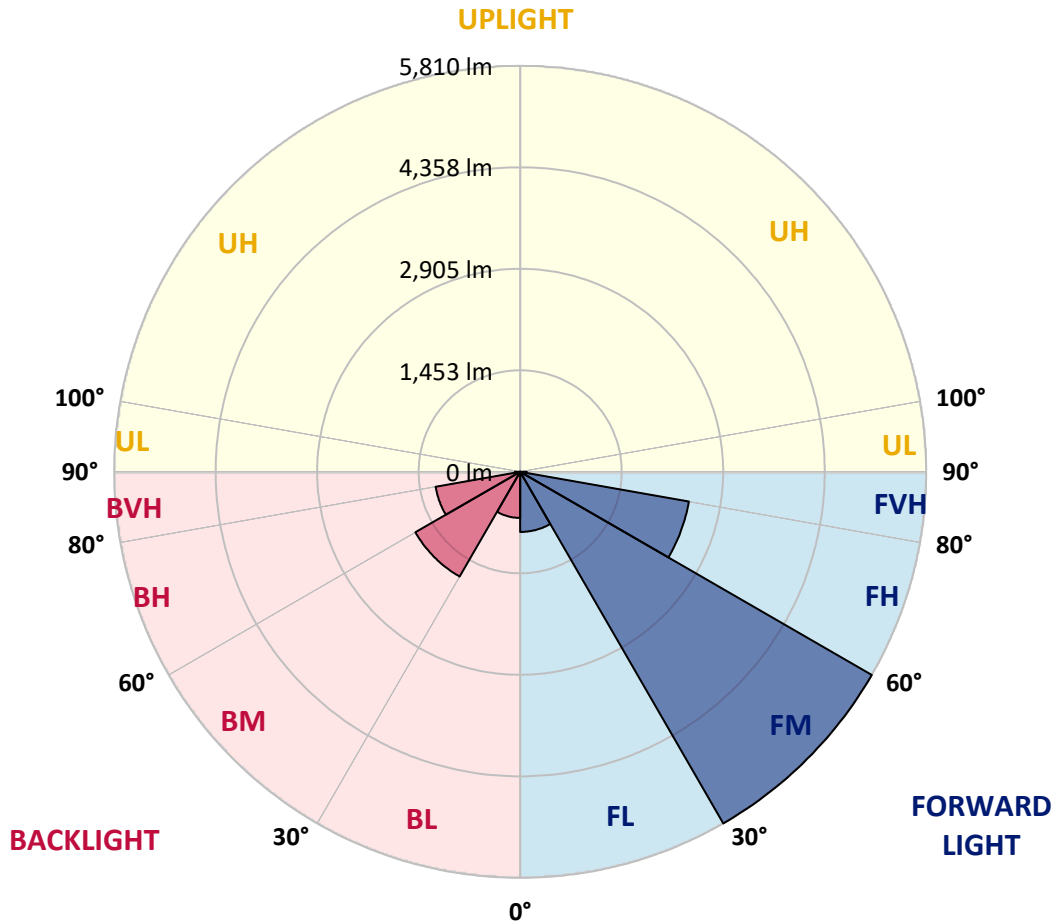
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.9	6.7			
FM (30°-60°)	5810.0	45.0			
FH (60°-80°)	2451.0	19.0			G2/5000
FVH (80°-90°)	95.1	0.7			G1/100
BL (0°-30°)	659.8	5.1	B2/1000		
BM (30°-60°)	1731.6	13.4	B2/2500		
BH (60°-80°)	1229.2	9.5	B3/2500		G3/2500
BVH (80°-90°)	76.4	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°	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2
2.5°	1479.8	1479.8	1479.8	1483.3	1486.9	1490.4	1497.5	1497.5	1497.5	1501.0	1508.1
5°	1451.5	1447.9	1451.5	1455.0	1462.1	1469.2	1483.3	1490.4	1490.4	1504.6	1518.7
7.5°	1455.0	1447.9	1447.9	1451.5	1458.6	1465.6	1479.8	1490.4	1494.0	1511.7	1536.4
10°	1490.4	1479.8	1479.8	1483.3	1483.3	1490.4	1501.0	1515.2	1518.7	1536.4	1561.2
12.5°	1564.8	1554.1	1550.6	1540.0	1529.4	1536.4	1547.1	1550.6	1554.1	1564.8	1589.5
15°	1720.5	1702.8	1674.5	1653.3	1624.9	1607.2	1603.7	1607.2	1607.2	1610.8	1624.9
17.5°	1943.6	1922.3	1879.8	1833.8	1766.6	1709.9	1692.2	1678.0	1678.0	1667.4	1667.4
20°	2216.2	2184.3	2134.7	2067.5	1968.3	1865.7	1805.5	1773.6	1763.0	1745.3	1720.5
22.5°	2531.2	2510.0	2446.3	2343.6	2194.9	2056.8	1957.7	1886.9	1886.9	1844.4	1791.3
25°	2903.0	2864.0	2789.7	2669.3	2467.5	2269.3	2134.7	2032.1	2021.4	1954.2	1869.2
27.5°	3264.1	3239.3	3147.2	2987.9	2747.2	2517.1	2329.4	2209.1	2191.4	2085.2	1954.2
30°	3703.0	3674.7	3536.6	3313.6	3055.2	2793.2	2573.7	2417.9	2400.2	2255.1	2071.0
32.5°	4248.2	4152.6	3982.7	3727.8	3395.0	3101.2	2849.9	2683.5	2662.2	2495.8	2276.3
35°	4910.2	4828.8	4535.0	4265.9	3869.4	3483.5	3182.6	2963.1	2934.8	2736.6	2460.4
37.5°	5377.5	5338.6	5136.8	4924.4	4471.3	3950.9	3582.7	3278.2	3249.9	2987.9	2630.4
40°	5671.4	5632.4	5575.8	5515.6	5264.3	4676.6	4064.1	3649.9	3603.9	3356.1	2970.2
42.5°	5823.6	5791.7	5802.4	5922.7	5993.5	5901.5	4750.9	4145.6	4113.7	3812.8	3384.4
45°	5735.1	5713.9	5816.5	6135.1	6482.1	7161.8	5632.4	4797.0	4712.0	4354.4	3887.1
47.5°	5310.3	5246.6	5487.3	6028.9	6772.4	7763.6	6694.5	5600.6	5508.5	4995.2	4396.9
50°	4435.9	4418.2	4747.4	5434.2	6659.1	8000.8	7830.9	6549.3	6482.1	5685.5	4963.3
52.5°	3621.6	3614.5	3869.4	4499.6	5936.9	7834.4	8655.8	7678.7	7476.9	6379.4	5579.3
55°	2810.9	2807.4	3033.9	3504.8	4736.8	7052.1	9045.2	8829.2	8680.5	7137.0	6213.0
57.5°	1922.3	1897.5	2191.4	2548.9	3557.9	5586.4	8790.3	9739.1	9647.0	7940.6	6885.7
60°	1069.1	1104.5	1430.2	1872.8	2545.4	3763.2	7728.2	10132.0	10117.9	8581.4	7434.4
62.5°	757.6	771.8	909.8	1331.1	1674.5	2156.0	5961.7	9724.9	9838.2	8935.4	7745.9
65°	630.2	637.2	704.5	984.2	1224.9	1246.1	3717.2	8517.7	8666.4	8825.7	7813.2
67.5°	594.8	598.3	633.7	725.7	959.4	902.7	1660.3	6503.3	6818.4	7940.6	7374.2
70°	541.6	545.2	598.3	640.8	775.3	711.6	853.2	4319.0	4743.9	6276.8	6358.2
72.5°	463.8	474.4	516.9	601.8	630.2	591.2	658.5	2308.2	2729.5	4198.7	4910.2
75°	400.0	407.1	439.0	509.8	591.2	470.8	559.3	1051.4	1232.0	2464.0	3108.3
77.5°	322.2	325.7	371.7	417.7	495.6	382.3	435.4	630.2	662.0	1203.7	1405.5
80°	244.3	244.3	276.1	332.8	368.2	368.2	318.6	439.0	456.7	573.5	555.8
82.5°	187.6	184.1	208.9	233.7	265.5	308.0	240.7	290.3	297.4	346.9	297.4
85°	123.9	123.9	138.1	159.3	177.0	169.9	187.6	169.9	177.0	216.0	162.8
87.5°	53.1	53.1	74.3	70.8	77.9	81.4	92.0	81.4	81.4	99.1	74.3
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°	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2	1515.2
2.5°	1511.7	1515.2	1522.3	1525.8	1536.4	1540.0	1540.0	1547.1	1547.1	1554.1	1554.1
5°	1522.3	1532.9	1543.5	1554.1	1564.8	1568.3	1575.4	1578.9	1578.9	1586.0	1582.5
7.5°	1543.5	1554.1	1575.4	1586.0	1600.2	1607.2	1603.7	1607.2	1603.7	1607.2	1607.2
10°	1571.8	1586.0	1610.8	1624.9	1635.6	1639.1	1628.5	1617.9	1603.7	1603.7	1603.7
12.5°	1603.7	1614.3	1646.2	1656.8	1663.9	1653.3	1624.9	1603.7	1593.1	1596.6	1593.1
15°	1635.6	1646.2	1671.0	1681.6	1681.6	1649.7	1624.9	1617.9	1614.3	1617.9	1617.9
17.5°	1667.4	1678.0	1699.3	1699.3	1688.7	1663.9	1639.1	1614.3	1596.6	1586.0	1586.0
20°	1709.9	1709.9	1717.0	1717.0	1713.5	1674.5	1614.3	1554.1	1518.7	1497.5	1494.0
22.5°	1766.6	1752.4	1738.2	1738.2	1752.4	1649.7	1532.9	1440.9	1384.2	1377.1	1363.0
25°	1826.7	1794.9	1759.5	1784.3	1759.5	1586.0	1419.6	1295.7	1228.4	1203.7	1210.7
27.5°	1890.5	1840.9	1787.8	1858.6	1724.1	1462.1	1260.3	1122.2	1058.5	1040.8	1040.8
30°	1979.0	1904.6	1826.7	1936.5	1656.8	1320.5	1072.7	973.6	938.1	924.0	920.4
32.5°	2148.9	2035.6	1922.3	2007.3	1582.5	1136.4	945.2	885.0	842.6	828.4	839.0
35°	2301.1	2141.8	2067.5	2039.1	1465.6	987.7	867.3	814.2	778.8	761.1	761.1
37.5°	2439.2	2287.0	2230.3	2039.1	1313.4	895.7	817.8	775.3	729.3	715.1	715.1
40°	2740.1	2538.3	2439.2	2010.8	1125.8	849.6	793.0	743.4	704.5	690.3	686.8
42.5°	3154.3	2881.7	2655.1	1947.1	966.5	828.4	778.8	722.2	690.3	679.7	676.2
45°	3593.3	3352.6	2860.5	1833.8	863.8	807.2	775.3	715.1	676.2	665.6	662.0
47.5°	4124.3	3876.5	3097.7	1660.3	793.0	793.0	771.8	704.5	669.1	658.5	658.5
50°	4712.0	4506.7	3398.6	1462.1	739.9	782.4	764.7	704.5	665.6	654.9	651.4
52.5°	5313.8	5218.2	3713.7	1267.4	686.8	768.2	761.1	704.5	658.5	647.9	647.9
55°	6078.5	6000.6	4078.3	1122.2	644.3	739.9	761.1	697.4	647.9	640.8	640.8
57.5°	6829.0	6800.7	4361.5	994.8	612.5	704.5	750.5	686.8	637.2	633.7	633.7
60°	7469.8	7441.5	4481.9	835.5	580.6	669.1	729.3	669.1	619.5	623.1	623.1
62.5°	7866.3	7703.4	4393.4	690.3	548.7	637.2	704.5	647.9	601.8	612.5	608.9
65°	7937.1	7558.3	4050.0	577.1	513.3	601.8	676.2	623.1	577.1	601.8	598.3
67.5°	7416.7	6786.5	3405.7	502.7	477.9	562.9	644.3	587.7	548.7	584.1	573.5
70°	6290.9	5512.1	2520.6	446.1	442.5	516.9	601.8	545.2	509.8	527.5	513.3
72.5°	4683.7	3979.2	1632.0	403.6	403.6	463.8	541.6	492.1	456.7	460.2	446.1
75°	2920.7	2446.3	927.5	364.6	364.6	410.7	481.5	431.9	407.1	393.0	410.7
77.5°	1327.6	1076.2	488.5	325.7	329.2	350.5	414.2	368.2	339.9	318.6	329.2
80°	492.1	439.0	318.6	279.7	286.8	290.3	332.8	293.8	269.1	254.9	247.8
82.5°	254.9	237.2	216.0	223.0	233.7	223.0	258.4	219.5	191.2	180.5	152.2
85°	127.4	123.9	131.0	148.7	162.8	138.1	155.8	141.6	116.8	85.0	85.0
87.5°	49.6	53.1	49.6	67.3	74.3	63.7	70.8	49.6	35.4	17.7	14.2
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)