

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: P573549

Luminaire Tested: **ARCH-S-PA2-90-730-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573549
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-PA2-90-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11692 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

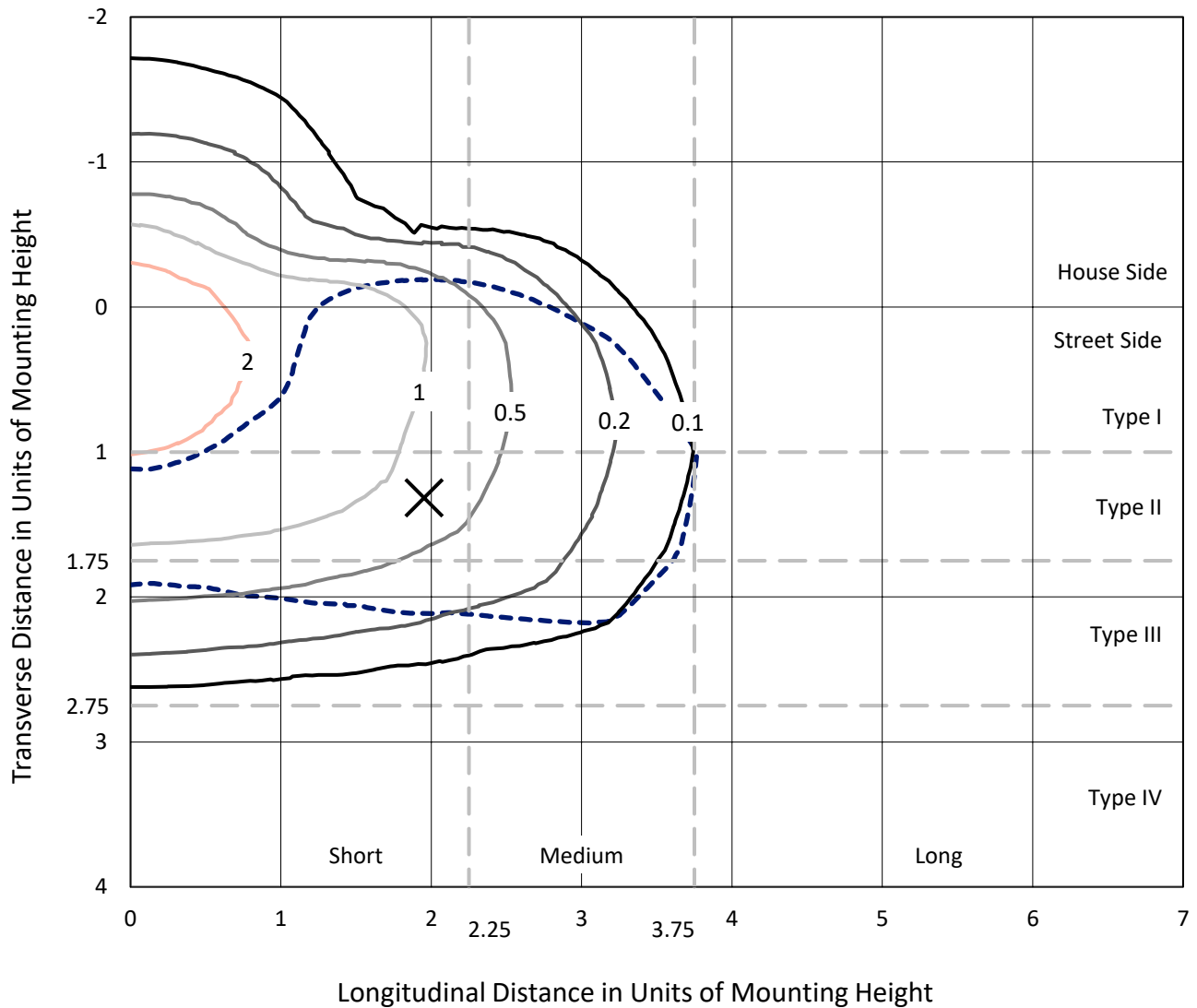
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

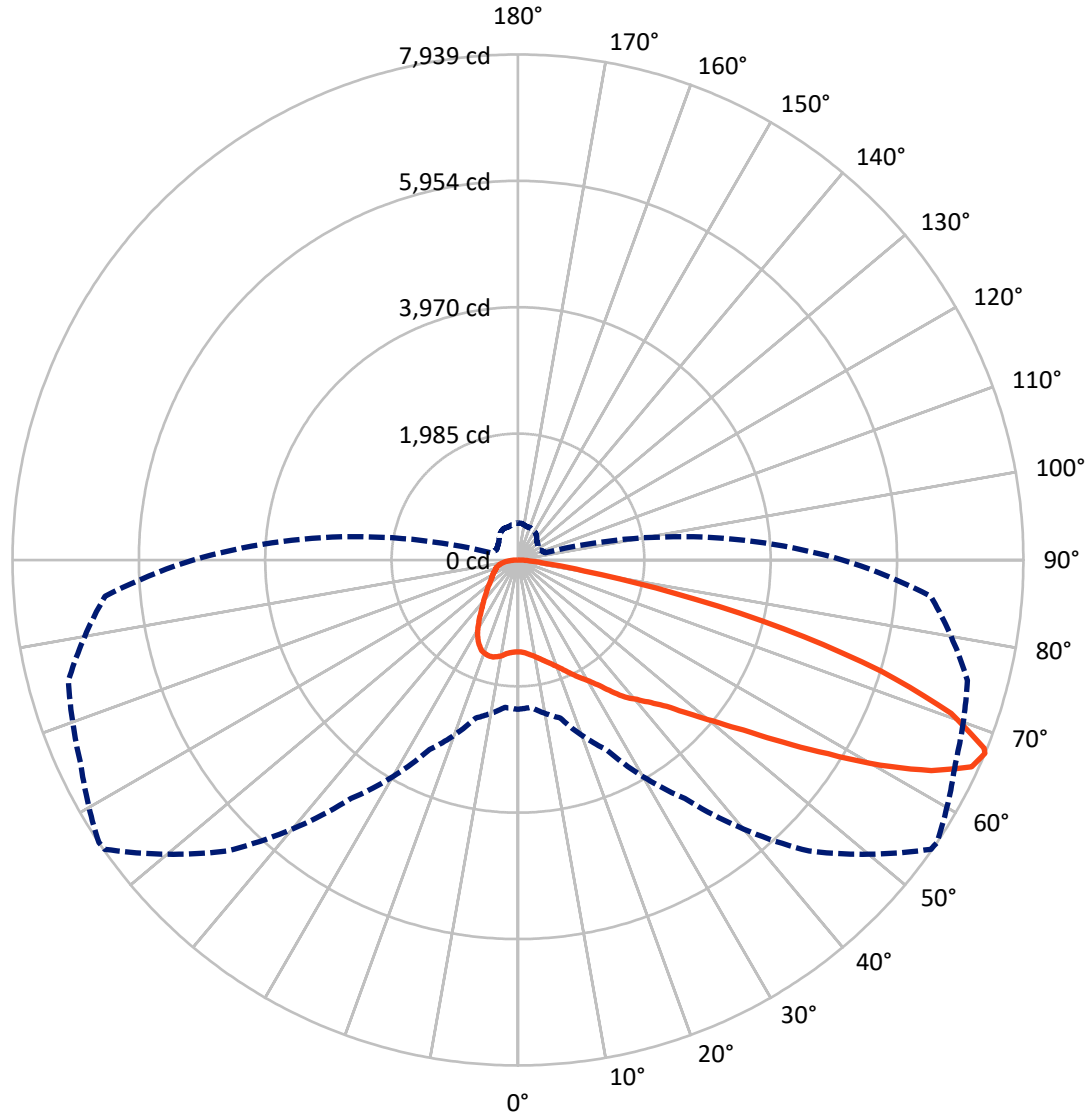
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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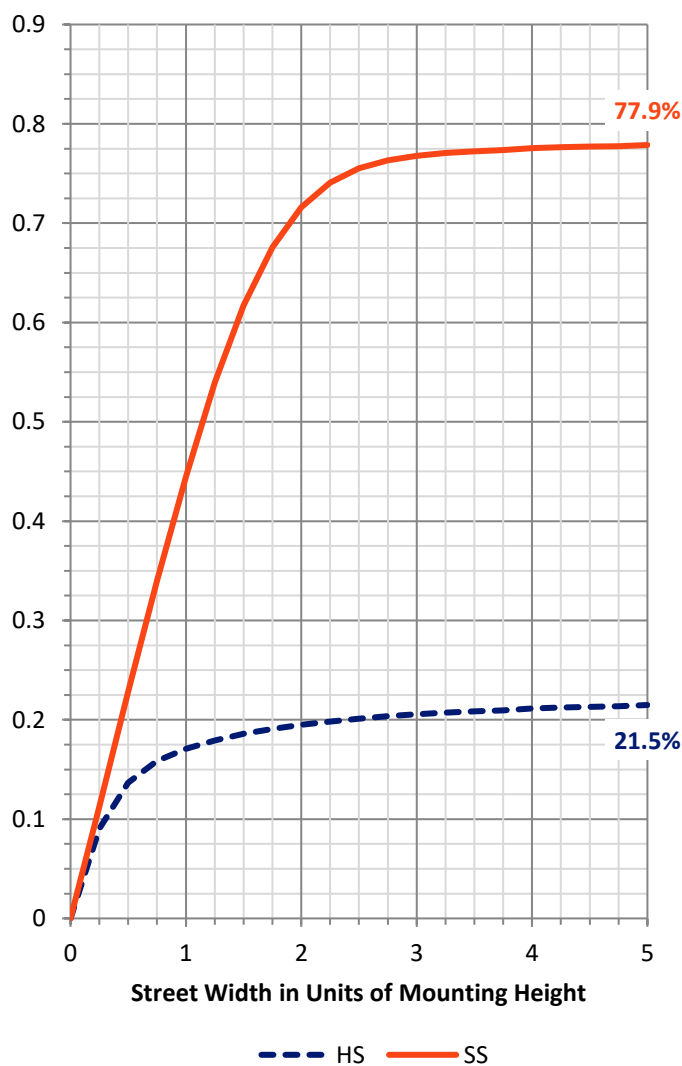
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2558.0	0.0	2558.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9134.0	0.0	9134.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	11692.0	0.0	11692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	1.2
10°-20°	455.4	3.9
20°-30°	792.6	6.8
30°-40°	1162.2	9.9
40°-50°	1700.5	14.5
50°-60°	2657.6	22.7
60°-70°	3158.7	27.0
70°-80°	1438.6	12.3
80°-90°	184.5	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°	11692.0	100.0
0°-180°	11692.0	100.0

Coefficient of Utilization



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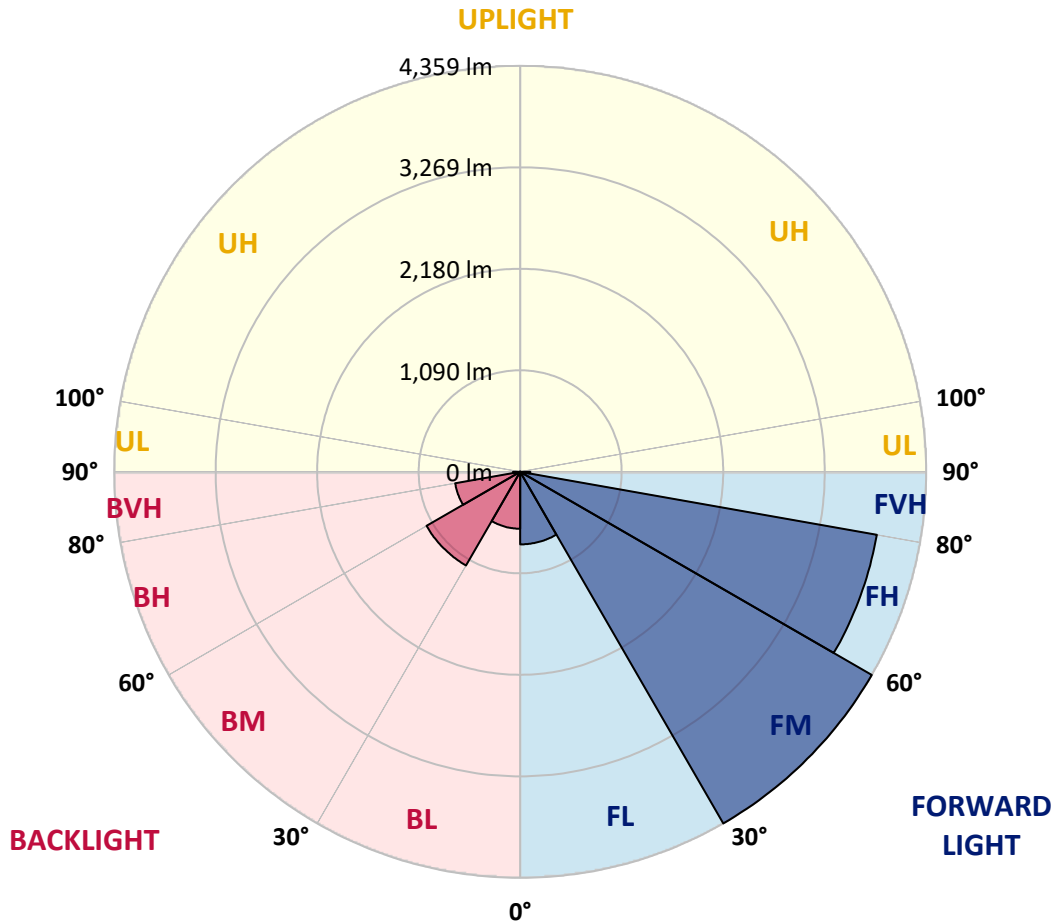
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.8	6.7			
FM (30°-60°)	4359.1	37.3			
FH (60°-80°)	3888.6	33.3			G2/5000
FVH (80°-90°)	107.6	0.9			G2/225
BL (0°-30°)	611.3	5.2	B2/1000		
BM (30°-60°)	1161.1	9.9	B2/2500		
BH (60°-80°)	708.6	6.1	B2/1000		G2/1000
BVH (80°-90°)	76.9	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°	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5
2.5°	1465.7	1459.3	1456.2	1459.3	1456.2	1449.8	1453.0	1449.8	1446.7	1443.5	1443.5
5°	1484.7	1478.3	1475.2	1478.3	1481.5	1475.2	1475.2	1475.2	1465.7	1462.5	1456.2
7.5°	1497.3	1487.8	1487.8	1494.2	1500.5	1503.6	1510.0	1506.8	1497.3	1491.0	1478.3
10°	1538.5	1525.8	1525.8	1525.8	1532.1	1538.5	1544.8	1548.0	1544.8	1541.6	1532.1
12.5°	1601.8	1589.1	1589.1	1589.1	1589.1	1586.0	1595.5	1598.6	1604.9	1604.9	1589.1
15°	1687.3	1671.4	1665.1	1652.4	1649.3	1642.9	1655.6	1655.6	1665.1	1668.3	1652.4
17.5°	1769.6	1750.6	1744.2	1731.6	1718.9	1703.1	1715.7	1718.9	1737.9	1741.1	1715.7
20°	1855.0	1848.7	1839.2	1820.2	1798.0	1782.2	1794.9	1791.7	1807.5	1813.9	1782.2
22.5°	1965.8	1950.0	1943.7	1918.3	1893.0	1877.2	1877.2	1883.5	1899.3	1899.3	1851.9
25°	2098.8	2076.6	2060.8	2032.3	2000.6	1981.7	1984.8	1991.1	2013.3	1997.5	1924.7
27.5°	2263.4	2241.2	2219.1	2162.1	2130.4	2092.4	2089.3	2095.6	2130.4	2089.3	1994.3
30°	2418.5	2409.0	2390.0	2345.7	2295.0	2231.7	2203.2	2206.4	2231.7	2174.8	2054.5
32.5°	2551.5	2538.8	2529.3	2497.6	2462.8	2386.8	2348.9	2352.0	2348.9	2279.2	2127.3
35°	2709.7	2690.7	2684.4	2655.9	2611.6	2561.0	2545.1	2538.8	2519.8	2424.8	2222.2
37.5°	2861.7	2842.7	2833.2	2817.4	2782.5	2738.2	2738.2	2735.1	2697.1	2564.1	2317.2
40°	3042.1	3020.0	2991.5	2982.0	2953.5	2921.8	2896.5	2880.7	2814.2	2693.9	2500.8
42.5°	3260.5	3247.9	3232.1	3190.9	3146.6	3140.3	3067.4	3061.1	3013.6	2944.0	2760.4
45°	3573.9	3548.6	3526.5	3513.8	3460.0	3403.0	3301.7	3276.4	3276.4	3260.5	3064.3
47.5°	3890.5	3846.2	3877.8	3868.3	3855.7	3792.4	3596.1	3599.3	3592.9	3634.1	3510.6
50°	4102.6	4077.3	4165.9	4207.1	4295.7	4295.7	4014.0	3979.1	4004.5	4124.7	3966.5
52.5°	4267.2	4251.4	4352.7	4514.1	4776.9	4802.2	4510.9	4438.1	4473.0	4643.9	4580.6
55°	4400.2	4384.3	4501.5	4783.2	5204.2	5359.3	5083.9	5052.3	4982.6	5166.2	5185.2
57.5°	4479.3	4444.5	4621.7	4998.4	5552.4	5910.1	5755.0	5745.5	5584.1	5755.0	5840.5
60°	4359.0	4336.8	4580.6	5087.1	5834.2	6429.3	6543.3	6543.3	6255.2	6347.0	6451.4
62.5°	3969.6	3941.1	4197.6	4881.3	5869.0	6853.5	7325.1	7287.2	6901.0	6897.8	6806.0
65°	3228.9	3194.1	3482.1	4203.9	5429.0	6904.1	7853.8	7831.6	7385.3	7258.7	6828.2
67°	2345.7	2323.5	2570.4	3285.9	4574.3	6464.1	7920.3	7939.3	7578.4	7309.3	6508.4
67.5°	2105.1	2101.9	2307.7	3016.8	4324.2	6302.7	7876.0	7895.0	7575.2	7268.2	6381.8
70°	981.3	1025.6	1218.7	1728.4	2915.5	4963.6	7147.9	7220.7	7170.0	6793.3	5375.2
72.5°	455.8	474.8	560.3	835.7	1567.0	3200.4	5793.0	5967.1	6188.7	5827.8	4257.7
75°	281.7	288.1	335.6	433.7	737.6	1538.5	4124.7	4314.7	4650.2	4384.3	2722.4
77.5°	221.6	224.8	256.4	310.2	430.5	661.6	2263.4	2500.8	2937.7	2592.6	1370.7
80°	164.6	170.9	196.3	240.6	303.9	338.7	962.3	1051.0	1418.2	1085.8	569.8
82.5°	120.3	126.6	151.9	174.1	212.1	215.3	392.5	414.7	607.8	440.0	246.9
85°	101.3	101.3	117.1	129.8	142.5	120.3	193.1	189.9	234.3	199.4	98.1
87.5°	47.5	50.6	110.8	82.3	69.6	50.6	57.0	60.1	72.8	79.1	38.0
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°	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5	1443.5
2.5°	1440.3	1440.3	1440.3	1443.5	1446.7	1446.7	1449.8	1449.8	1453.0	1456.2	1462.5
5°	1453.0	1453.0	1449.8	1453.0	1459.3	1462.5	1468.8	1475.2	1481.5	1487.8	1491.0
7.5°	1478.3	1475.2	1475.2	1475.2	1481.5	1487.8	1497.3	1503.6	1513.1	1516.3	1522.6
10°	1525.8	1519.5	1519.5	1522.6	1525.8	1516.3	1513.1	1510.0	1519.5	1525.8	1532.1
12.5°	1582.8	1576.5	1573.3	1563.8	1551.1	1532.1	1516.3	1503.6	1506.8	1513.1	1522.6
15°	1642.9	1630.3	1623.9	1601.8	1570.1	1529.0	1503.6	1487.8	1487.8	1487.8	1497.3
17.5°	1706.2	1693.6	1668.3	1627.1	1567.0	1510.0	1478.3	1449.8	1437.2	1434.0	1440.3
20°	1766.4	1747.4	1706.2	1642.9	1548.0	1472.0	1430.8	1383.4	1364.4	1351.7	1358.0
22.5°	1823.4	1798.0	1741.1	1642.9	1516.3	1415.0	1342.2	1278.9	1247.2	1240.9	1244.1
25°	1883.5	1851.9	1775.9	1623.9	1446.7	1329.5	1228.2	1161.8	1120.6	1114.3	1123.8
27.5°	1943.7	1896.2	1804.4	1573.3	1367.5	1212.4	1104.8	1041.5	1019.3	1006.7	1009.8
30°	1994.3	1950.0	1832.9	1503.6	1259.9	1076.3	978.2	949.7	933.8	927.5	927.5
32.5°	2060.8	2019.6	1851.9	1421.3	1133.3	952.8	889.5	867.4	854.7	838.9	842.0
35°	2143.1	2105.1	1842.4	1316.9	1013.0	870.5	819.9	788.2	759.7	737.6	734.4
37.5°	2253.9	2225.4	1794.9	1190.3	902.2	810.4	759.7	718.6	677.4	642.6	636.3
40°	2437.5	2371.0	1725.2	1051.0	826.2	762.9	702.8	652.1	601.5	563.5	554.0
42.5°	2671.7	2532.5	1630.3	908.5	762.9	712.3	652.1	585.6	538.1	503.3	503.3
45°	2944.0	2706.6	1516.3	800.9	696.4	661.6	588.8	531.8	503.3	481.2	478.0
47.5°	3266.9	2880.7	1370.7	715.4	642.6	617.3	544.5	509.7	490.7	471.7	468.5
50°	3700.6	3114.9	1263.1	642.6	588.8	566.6	531.8	503.3	484.3	471.7	468.5
52.5°	4197.6	3415.7	1187.1	585.6	544.5	535.0	528.7	506.5	487.5	478.0	474.8
55°	4735.7	3786.0	1114.3	538.1	509.7	522.3	535.0	512.8	500.2	487.5	481.2
57.5°	5242.2	4099.4	997.2	497.0	484.3	506.5	531.8	516.0	500.2	490.7	487.5
60°	5587.2	4257.7	835.7	459.0	459.0	484.3	522.3	500.2	484.3	487.5	487.5
62.5°	5698.0	4197.6	661.6	424.2	433.7	459.0	493.8	481.2	474.8	490.7	490.7
65°	5533.4	3953.8	528.7	395.7	408.4	427.4	478.0	490.7	509.7	544.5	547.6
67°	5102.9	3561.3	446.3	373.5	386.2	417.9	497.0	541.3	541.3	579.3	579.3
67.5°	4976.3	3428.3	433.7	367.2	383.0	417.9	506.5	554.0	541.3	585.6	585.6
70°	4045.6	2697.1	367.2	348.2	370.4	440.0	547.6	557.1	528.7	569.8	566.6
72.5°	3001.0	1950.0	335.6	329.2	345.0	414.7	544.5	535.0	493.8	506.5	497.0
75°	1855.0	1130.1	310.2	303.9	313.4	367.2	503.3	487.5	440.0	430.5	421.0
77.5°	895.9	573.0	265.9	275.4	284.9	319.7	443.2	427.4	386.2	364.0	360.9
80°	389.4	294.4	227.9	243.7	246.9	272.2	367.2	348.2	310.2	275.4	275.4
82.5°	193.1	164.6	180.4	202.6	196.3	218.4	288.1	256.4	227.9	189.9	183.6
85°	88.6	95.0	133.0	151.9	133.0	136.1	196.3	180.4	142.5	107.6	110.8
87.5°	31.7	44.3	76.0	91.8	66.5	63.3	104.5	76.0	44.3	12.7	15.8
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)