

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: P572811

Luminaire Tested: **ARCH-S-PA2-120-727-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572811
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-PA2-120-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13074 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

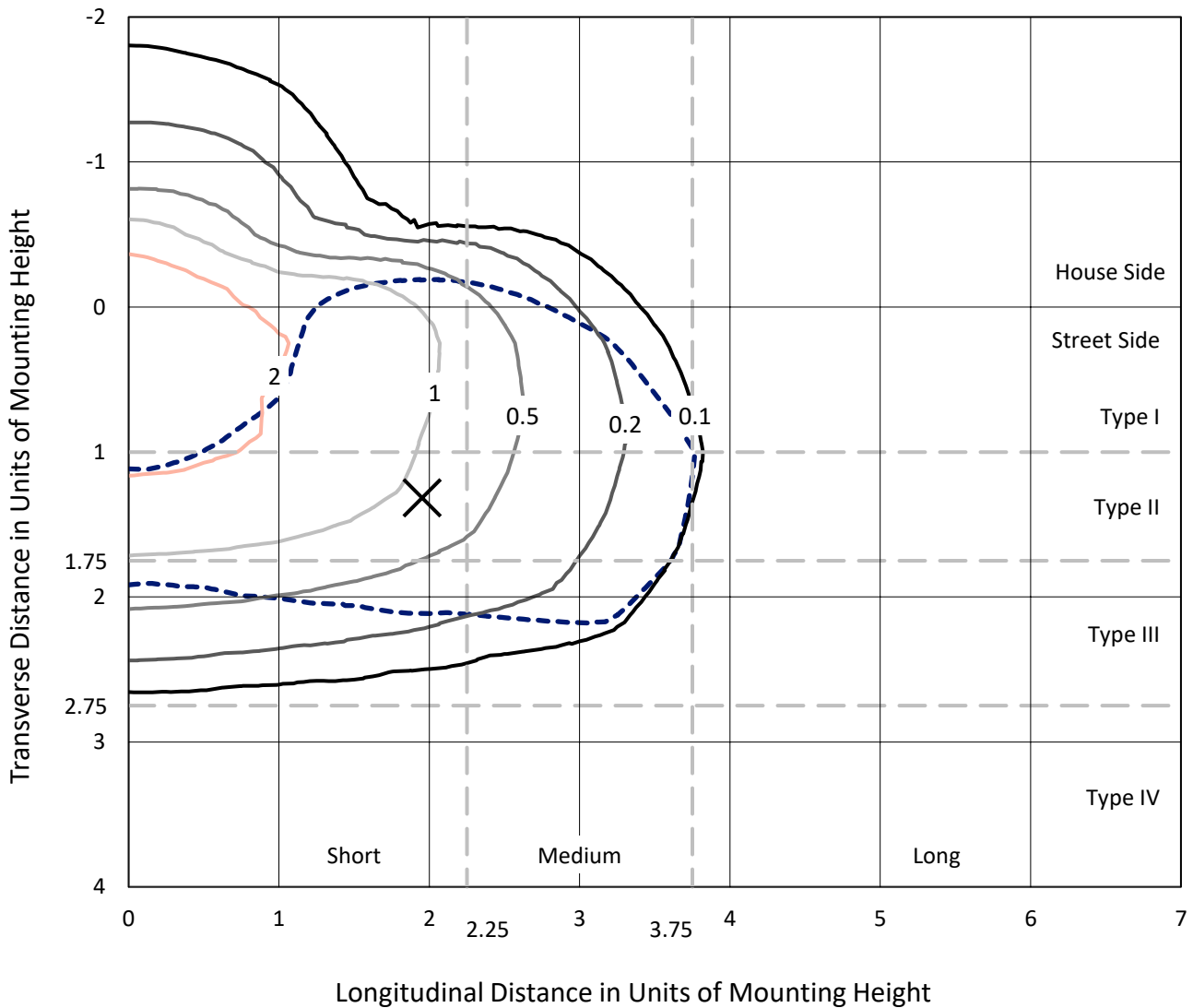
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

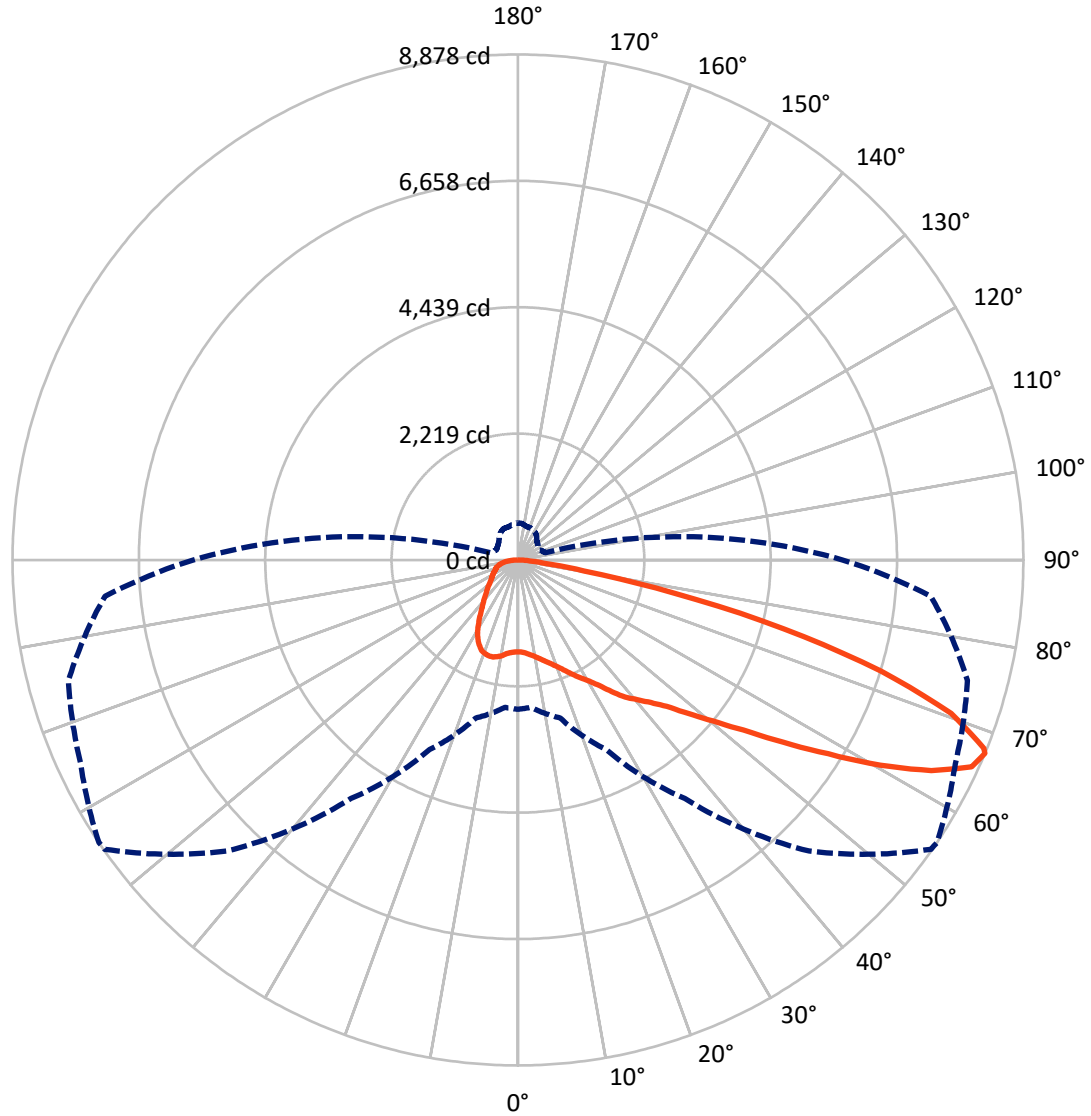
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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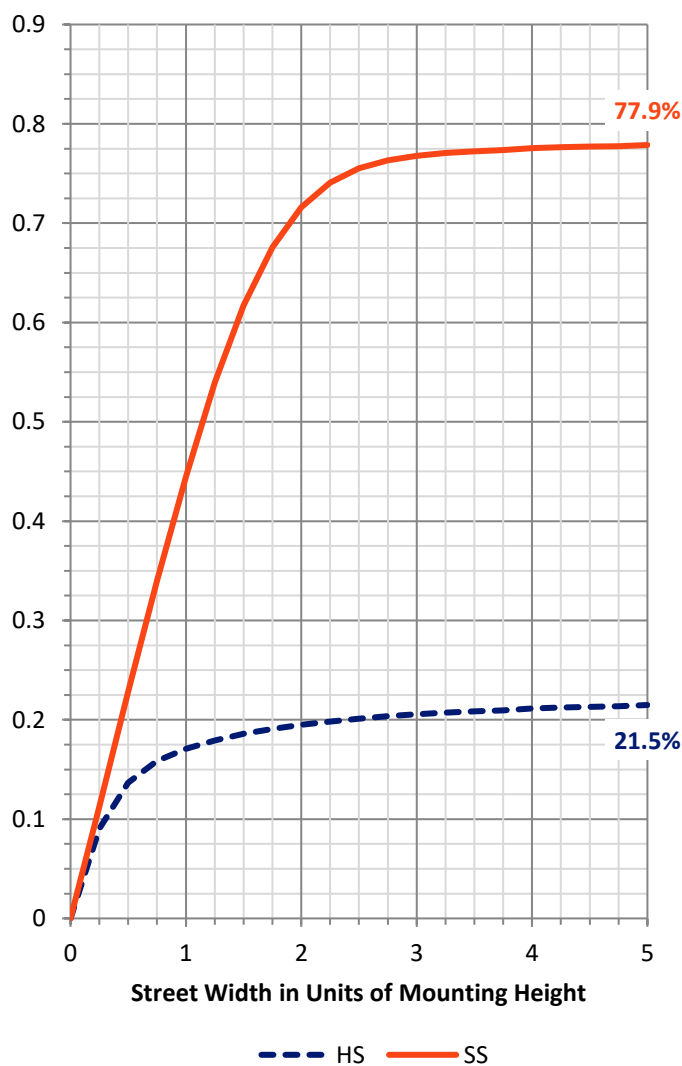
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2860.3	0.0	2860.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10213.7	0.0	10213.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	13074.0	0.0	13074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	1.2
10°-20°	509.3	3.9
20°-30°	886.3	6.8
30°-40°	1299.6	9.9
40°-50°	1901.5	14.5
50°-60°	2971.7	22.7
60°-70°	3532.0	27.0
70°-80°	1608.6	12.3
80°-90°	206.3	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°	13074.0	100.0
0°-180°	13074.0	100.0

Coefficient of Utilization

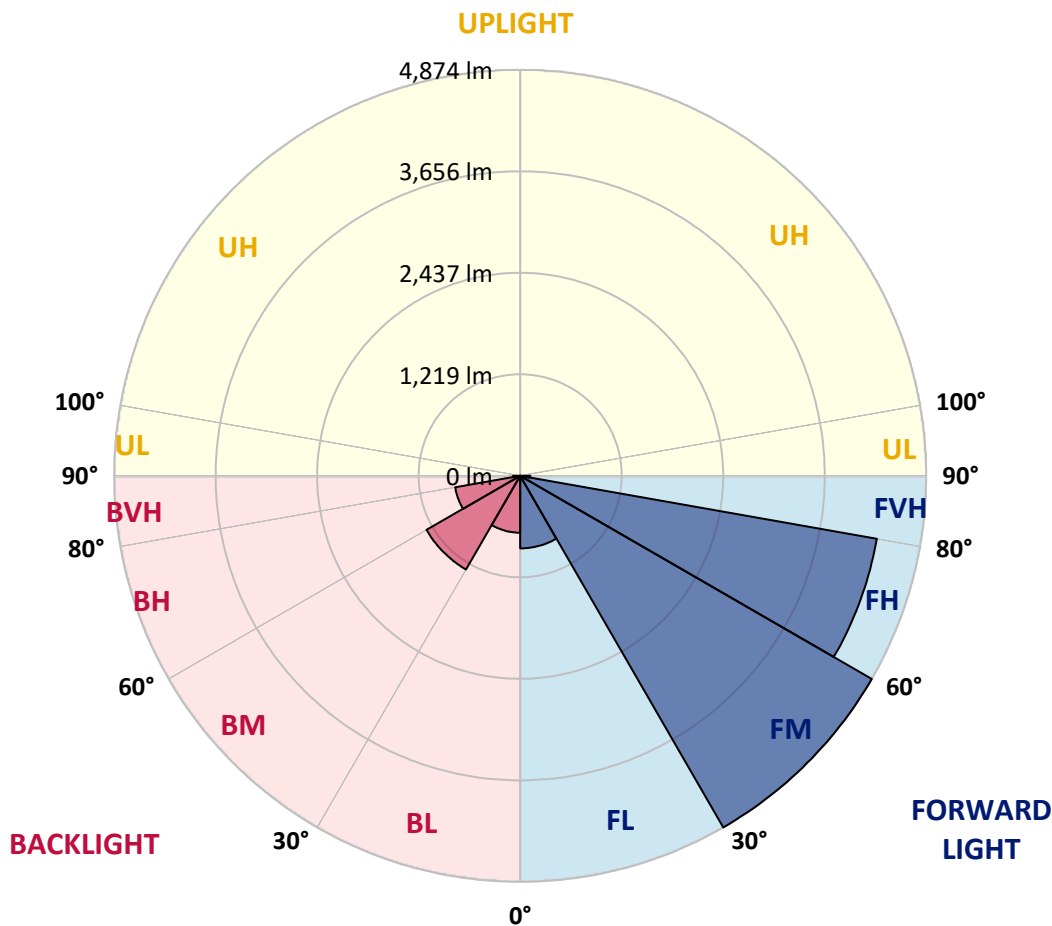


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.8	6.7			
FM (30°-60°)	4874.3	37.3			
FH (60°-80°)	4348.2	33.3			G2/5000
FVH (80°-90°)	120.3	0.9			G2/225
BL (0°-30°)	683.6	5.2	B2/1000		
BM (30°-60°)	1298.4	9.9	B2/2500		
BH (60°-80°)	792.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	86.0	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°	1614.1	1614.1	1614.1	1614.1	1614.1	1614.1	1614.1	1614.1	1614.1	1614.1	1614.1
2.5°	1638.9	1631.8	1628.3	1631.8	1628.3	1621.2	1624.7	1621.2	1617.7	1614.1	1614.1
5°	1660.1	1653.1	1649.5	1653.1	1656.6	1649.5	1649.5	1649.5	1638.9	1635.4	1628.3
7.5°	1674.3	1663.7	1663.7	1670.8	1677.8	1681.4	1688.5	1684.9	1674.3	1667.2	1653.1
10°	1720.3	1706.2	1706.2	1706.2	1713.2	1720.3	1727.4	1730.9	1727.4	1723.9	1713.2
12.5°	1791.1	1777.0	1777.0	1777.0	1777.0	1773.4	1784.0	1787.6	1794.7	1794.7	1777.0
15°	1886.7	1869.0	1861.9	1847.8	1844.2	1837.1	1851.3	1851.3	1861.9	1865.4	1847.8
17.5°	1978.7	1957.5	1950.4	1936.2	1922.1	1904.4	1918.5	1922.1	1943.3	1946.9	1918.5
20°	2074.3	2067.2	2056.6	2035.4	2010.6	1992.9	2007.0	2003.5	2021.2	2028.3	1992.9
22.5°	2198.2	2180.5	2173.4	2145.1	2116.8	2099.1	2099.1	2106.2	2123.9	2123.9	2070.8
25°	2346.9	2322.1	2304.4	2272.5	2237.1	2215.9	2219.4	2226.5	2251.3	2233.6	2152.2
27.5°	2530.9	2506.1	2481.4	2417.7	2382.3	2339.8	2336.2	2343.3	2382.3	2336.2	2230.0
30°	2704.4	2693.8	2672.5	2623.0	2566.3	2495.5	2463.7	2467.2	2495.5	2431.8	2297.3
32.5°	2853.0	2838.9	2828.3	2792.9	2753.9	2669.0	2626.5	2630.0	2626.5	2548.6	2378.7
35°	3030.0	3008.8	3001.7	2969.9	2920.3	2863.7	2846.0	2838.9	2817.6	2711.4	2484.9
37.5°	3199.9	3178.7	3168.1	3150.4	3111.4	3061.9	3061.9	3058.3	3015.9	2867.2	2591.1
40°	3401.7	3376.9	3345.1	3334.4	3302.6	3267.2	3238.9	3221.2	3146.8	3012.3	2796.4
42.5°	3645.9	3631.8	3614.1	3568.1	3518.5	3511.4	3430.0	3422.9	3369.8	3292.0	3086.7
45°	3996.4	3968.1	3943.3	3929.1	3868.9	3805.2	3692.0	3663.6	3663.6	3645.9	3426.5
47.5°	4350.4	4300.8	4336.2	4325.6	4311.4	4240.6	4021.2	4024.7	4017.6	4063.6	3925.6
50°	4587.5	4559.2	4658.3	4704.3	4803.4	4803.4	4488.4	4449.5	4477.8	4612.3	4435.3
52.5°	4771.6	4753.9	4867.2	5047.7	5341.5	5369.8	5044.1	4962.7	5001.7	5192.8	5122.0
55°	4920.3	4902.6	5033.5	5348.6	5819.4	5992.8	5684.8	5649.4	5571.6	5776.9	5798.1
57.5°	5008.7	4969.8	5168.0	5589.3	6208.7	6608.7	6435.3	6424.6	6244.1	6435.3	6530.8
60°	4874.2	4849.5	5122.0	5688.4	6523.8	7189.2	7316.7	7316.7	6994.5	7097.2	7214.0
62.5°	4438.8	4407.0	4693.7	5458.3	6562.7	7663.6	8191.0	8148.5	7716.7	7713.1	7610.5
65°	3610.5	3571.6	3893.7	4700.8	6070.7	7720.2	8782.1	8757.3	8258.2	8116.7	7635.2
67°	2623.0	2598.2	2874.3	3674.3	5114.9	7228.2	8856.5	8877.7	8474.2	8173.3	7277.7
67.5°	2353.9	2350.4	2580.5	3373.4	4835.3	7047.6	8806.9	8828.1	8470.6	8127.3	7136.1
70°	1097.3	1146.9	1362.8	1932.7	3260.1	5550.3	7992.8	8074.2	8017.5	7596.3	6010.5
72.5°	509.7	531.0	626.5	934.5	1752.2	3578.7	6477.7	6672.4	6920.2	6516.7	4761.0
75°	315.0	322.1	375.2	484.9	824.8	1720.3	4612.3	4824.7	5199.9	4902.6	3044.2
77.5°	247.8	251.3	286.7	346.9	481.4	739.8	2530.9	2796.4	3284.9	2899.1	1532.7
80°	184.1	191.1	219.5	269.0	339.8	378.8	1076.1	1175.2	1585.8	1214.1	637.2
82.5°	134.5	141.6	169.9	194.7	237.2	240.7	438.9	463.7	679.6	492.0	276.1
85°	113.3	113.3	131.0	145.1	159.3	134.5	215.9	212.4	261.9	223.0	109.7
87.5°	53.1	56.6	123.9	92.0	77.9	56.6	63.7	67.3	81.4	88.5	42.5
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°	1614.1	1614.1	1614.1	1614.1	1614.1	1614.1	1614.1	1614.1	1614.1	1614.1	1614.1
2.5°	1610.6	1610.6	1610.6	1614.1	1617.7	1617.7	1621.2	1621.2	1624.7	1628.3	1635.4
5°	1624.7	1624.7	1621.2	1624.7	1631.8	1635.4	1642.4	1649.5	1656.6	1663.7	1667.2
7.5°	1653.1	1649.5	1649.5	1649.5	1656.6	1663.7	1674.3	1681.4	1692.0	1695.5	1702.6
10°	1706.2	1699.1	1699.1	1702.6	1706.2	1695.5	1692.0	1688.5	1699.1	1706.2	1713.2
12.5°	1769.9	1762.8	1759.3	1748.6	1734.5	1713.2	1695.5	1681.4	1684.9	1692.0	1702.6
15°	1837.1	1823.0	1815.9	1791.1	1755.7	1709.7	1681.4	1663.7	1663.7	1663.7	1674.3
17.5°	1907.9	1893.8	1865.4	1819.4	1752.2	1688.5	1653.1	1621.2	1607.0	1603.5	1610.6
20°	1975.2	1953.9	1907.9	1837.1	1730.9	1646.0	1600.0	1546.9	1525.6	1511.5	1518.6
22.5°	2038.9	2010.6	1946.9	1837.1	1695.5	1582.3	1500.9	1430.1	1394.7	1387.6	1391.1
25°	2106.2	2070.8	1985.8	1815.9	1617.7	1486.7	1373.4	1299.1	1253.1	1246.0	1256.6
27.5°	2173.4	2120.3	2017.7	1759.3	1529.2	1355.7	1235.4	1164.6	1139.8	1125.6	1129.2
30°	2230.0	2180.5	2049.5	1681.4	1408.8	1203.5	1093.8	1061.9	1044.2	1037.1	1037.1
32.5°	2304.4	2258.4	2070.8	1589.3	1267.2	1065.5	994.7	969.9	955.7	938.0	941.6
35°	2396.4	2353.9	2060.1	1472.5	1132.7	973.4	916.8	881.4	849.5	824.8	821.2
37.5°	2520.3	2488.4	2007.0	1330.9	1008.8	906.2	849.5	803.5	757.5	718.6	711.5
40°	2725.6	2651.3	1929.2	1175.2	923.9	853.1	785.8	729.2	672.6	630.1	619.5
42.5°	2987.6	2831.8	1823.0	1015.9	853.1	796.4	729.2	654.9	601.8	562.8	562.8
45°	3292.0	3026.5	1695.5	895.6	778.7	739.8	658.4	594.7	562.8	538.0	534.5
47.5°	3653.0	3221.2	1532.7	800.0	718.6	690.3	608.8	569.9	548.7	527.4	523.9
50°	4138.0	3483.1	1412.4	718.6	658.4	633.6	594.7	562.8	541.6	527.4	523.9
52.5°	4693.7	3819.4	1327.4	654.9	608.8	598.2	591.1	566.4	545.1	534.5	531.0
55°	5295.5	4233.5	1246.0	601.8	569.9	584.1	598.2	573.4	559.3	545.1	538.0
57.5°	5861.8	4584.0	1115.0	555.7	541.6	566.4	594.7	577.0	559.3	548.7	545.1
60°	6247.7	4761.0	934.5	513.3	513.3	541.6	584.1	559.3	541.6	545.1	545.1
62.5°	6371.6	4693.7	739.8	474.3	484.9	513.3	552.2	538.0	531.0	548.7	548.7
65°	6187.5	4421.1	591.1	442.5	456.6	477.9	534.5	548.7	569.9	608.8	612.4
67°	5706.1	3982.2	499.1	417.7	431.8	467.2	555.7	605.3	605.3	647.8	647.8
67.5°	5564.5	3833.6	484.9	410.6	428.3	467.2	566.4	619.5	605.3	654.9	654.9
70°	4523.8	3015.9	410.6	389.4	414.2	492.0	612.4	623.0	591.1	637.2	633.6
72.5°	3355.7	2180.5	375.2	368.1	385.8	463.7	608.8	598.2	552.2	566.4	555.7
75°	2074.3	1263.7	346.9	339.8	350.4	410.6	562.8	545.1	492.0	481.4	470.8
77.5°	1001.7	640.7	297.3	308.0	318.6	357.5	495.6	477.9	431.8	407.1	403.5
80°	435.4	329.2	254.9	272.6	276.1	304.4	410.6	389.4	346.9	308.0	308.0
82.5°	215.9	184.1	201.8	226.5	219.5	244.2	322.1	286.7	254.9	212.4	205.3
85°	99.1	106.2	148.7	169.9	148.7	152.2	219.5	201.8	159.3	120.4	123.9
87.5°	35.4	49.6	85.0	102.7	74.3	70.8	116.8	85.0	49.6	14.2	17.7
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)