

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: P573484

Luminaire Tested: **ARCH-S-PA2-80-740-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573484
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-PA2-80-740-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11689 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

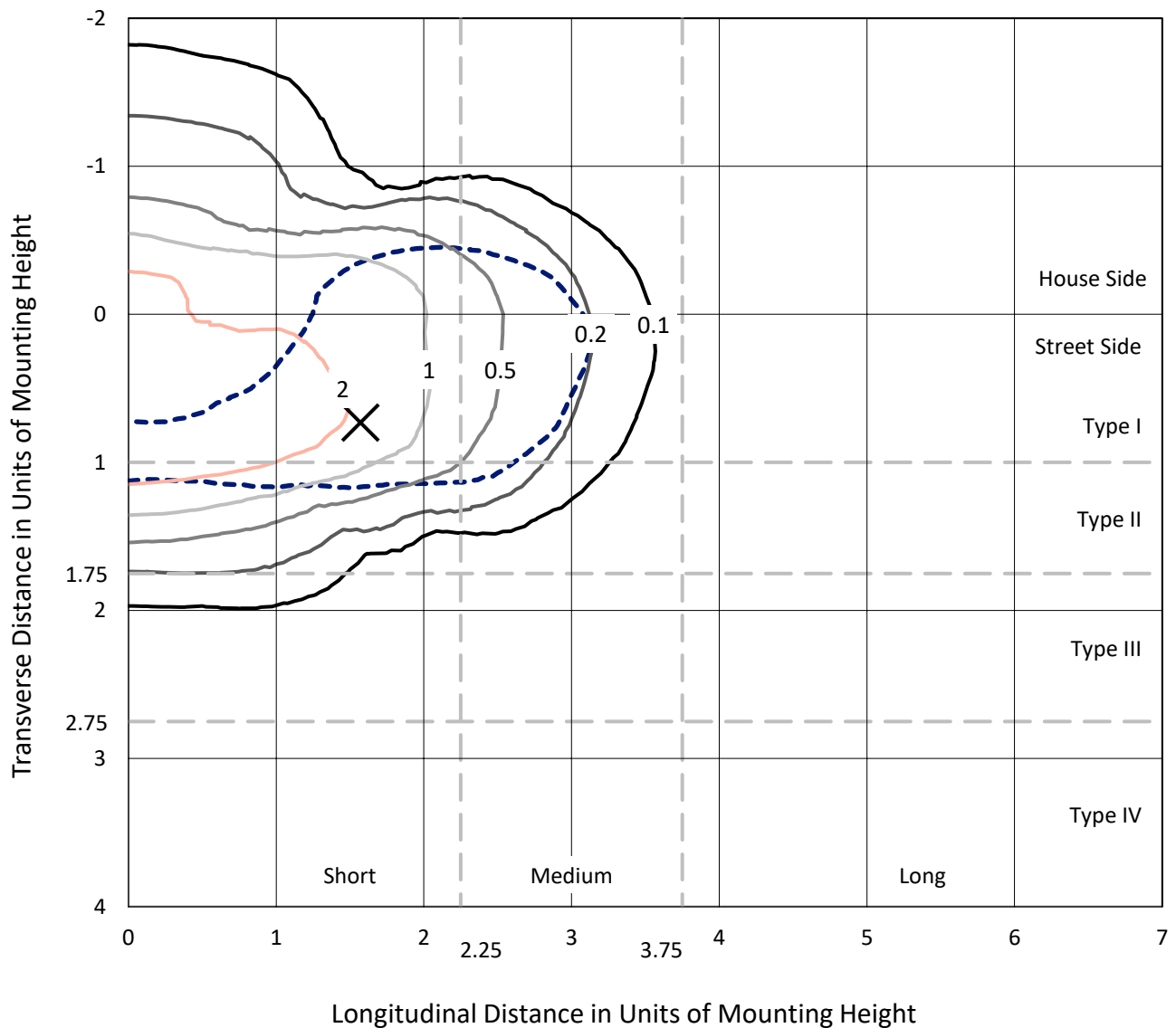
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

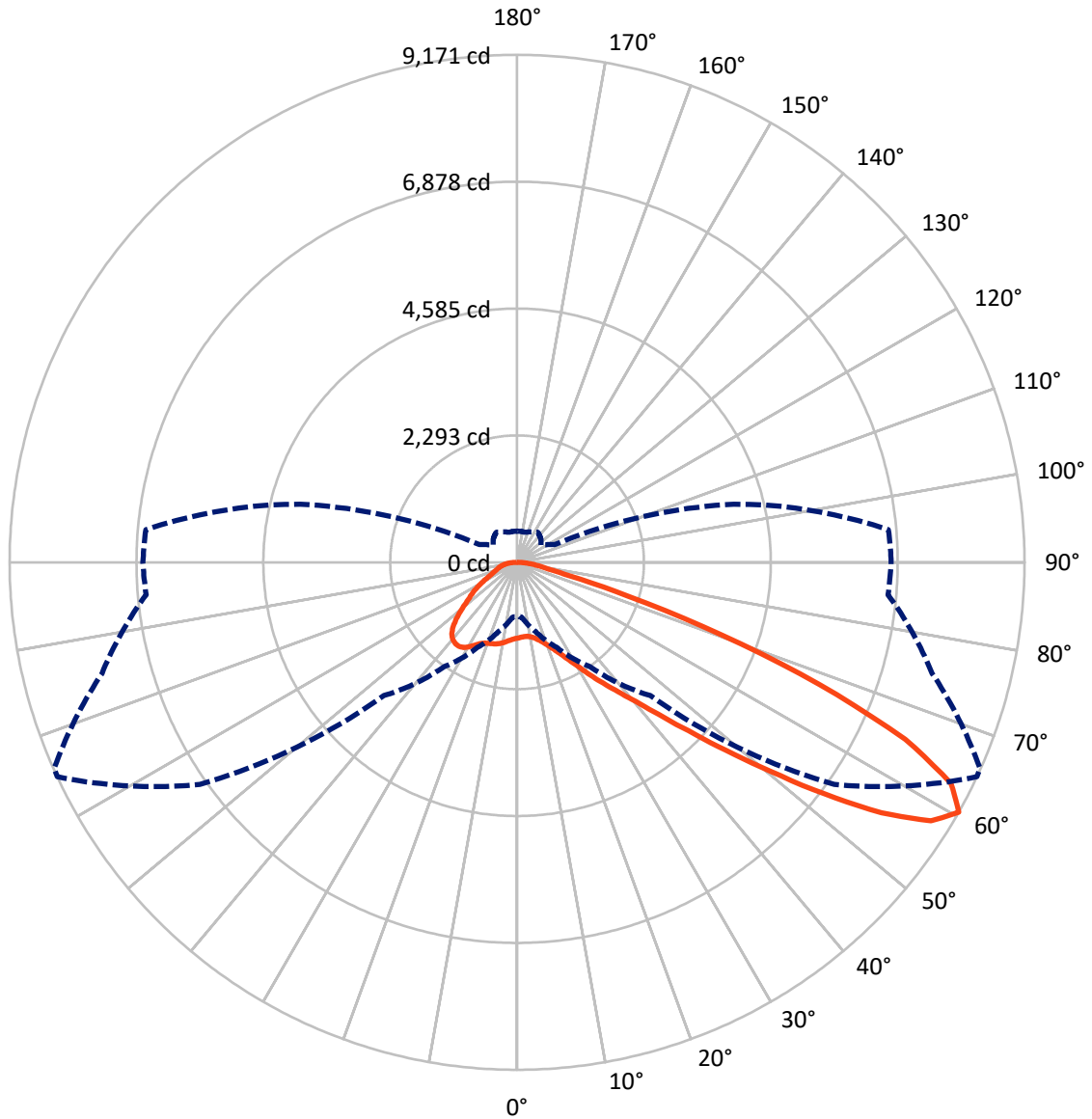
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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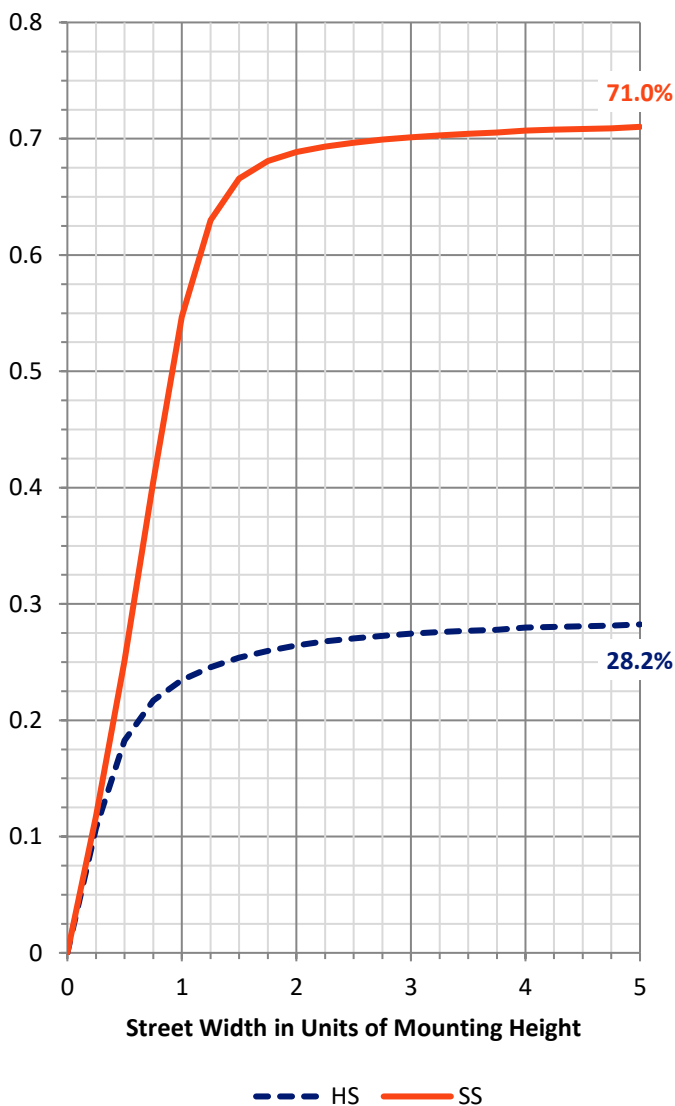
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3346.2	0.0	3346.2
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	8342.8	0.0	8342.8
	% Fixture	71.4	0.0	71.4
Total	Lumens	11689.0	0.0	11689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	1.1
10°-20°	426.5	3.6
20°-30°	817.5	7.0
30°-40°	1419.8	12.1
40°-50°	2408.0	20.6
50°-60°	2998.4	25.7
60°-70°	2416.2	20.7
70°-80°	914.9	7.8
80°-90°	155.2	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°	11689.0	100.0
0°-180°	11689.0	100.0

Coefficient of Utilization



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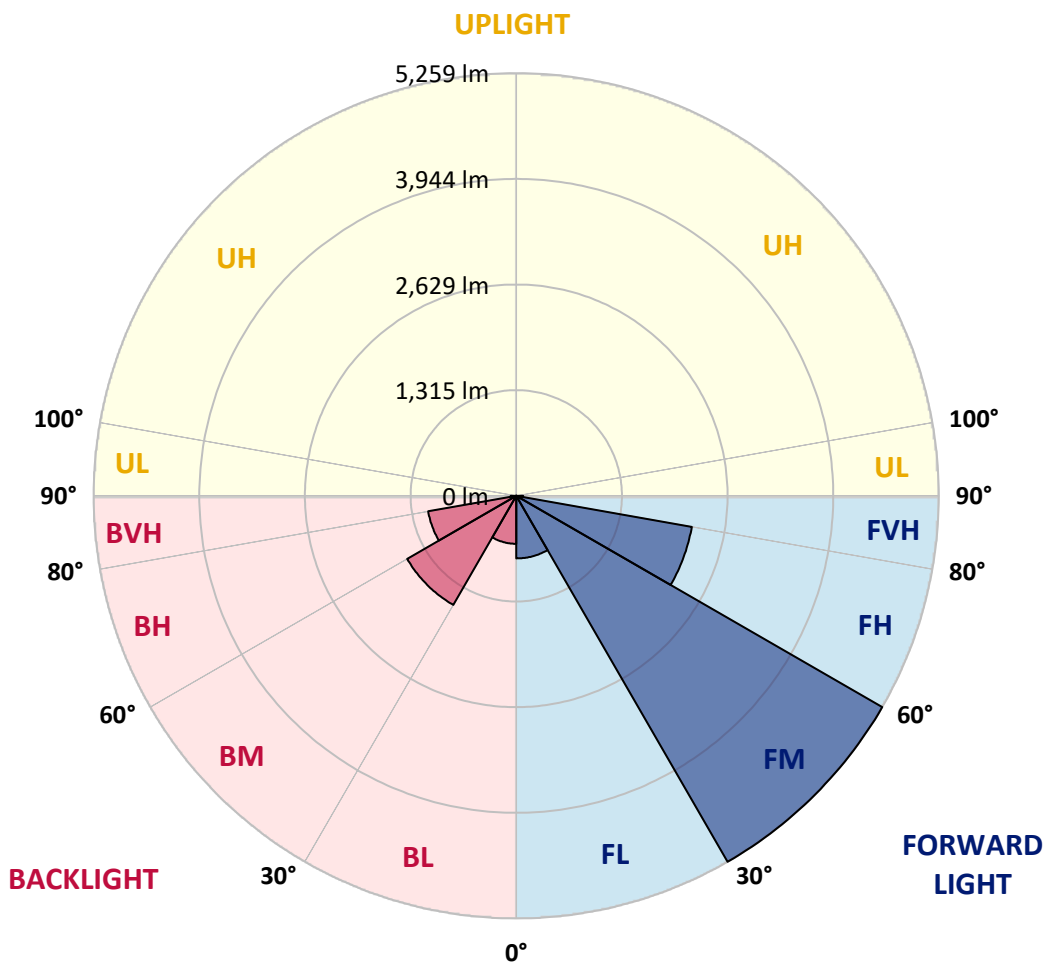
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.3	6.7			
FM (30°-60°)	5258.9	45.0			
FH (60°-80°)	2218.5	19.0			G2/5000
FVH (80°-90°)	86.1	0.7			G1/100
BL (0°-30°)	597.2	5.1	B2/1000		
BM (30°-60°)	1567.3	13.4	B2/2500		
BH (60°-80°)	1112.6	9.5	B3/2500		G3/2500
BVH (80°-90°)	69.1	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°	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5
2.5°	1339.4	1339.4	1339.4	1342.6	1345.8	1349.0	1355.4	1355.4	1355.4	1358.7	1365.1
5°	1313.8	1310.6	1313.8	1317.0	1323.4	1329.8	1342.6	1349.0	1349.0	1361.9	1374.7
7.5°	1317.0	1310.6	1310.6	1313.8	1320.2	1326.6	1339.4	1349.0	1352.2	1368.3	1390.7
10°	1349.0	1339.4	1339.4	1342.6	1342.6	1349.0	1358.7	1371.5	1374.7	1390.7	1413.1
12.5°	1416.3	1406.7	1403.5	1393.9	1384.3	1390.7	1400.3	1403.5	1406.7	1416.3	1438.8
15°	1557.3	1541.3	1515.7	1496.4	1470.8	1454.8	1451.6	1454.8	1454.8	1458.0	1470.8
17.5°	1759.2	1740.0	1701.5	1659.9	1599.0	1547.7	1531.7	1518.9	1518.9	1509.3	1509.3
20°	2005.9	1977.1	1932.2	1871.4	1781.6	1688.7	1634.2	1605.4	1595.8	1579.8	1557.3
22.5°	2291.1	2271.9	2214.2	2121.3	1986.7	1861.7	1772.0	1707.9	1707.9	1669.5	1621.4
25°	2627.6	2592.3	2525.0	2416.1	2233.4	2054.0	1932.2	1839.3	1829.7	1768.8	1691.9
27.5°	2954.4	2932.0	2848.7	2704.5	2486.6	2278.3	2108.5	1999.5	1983.5	1887.4	1768.8
30°	3351.8	3326.1	3201.2	2999.3	2765.4	2528.2	2329.6	2188.6	2172.6	2041.2	1874.6
32.5°	3845.2	3758.7	3604.9	3374.2	3073.0	2807.0	2579.5	2428.9	2409.7	2259.1	2060.4
35°	4444.5	4370.8	4104.8	3861.3	3502.4	3153.1	2880.7	2682.1	2656.4	2477.0	2227.0
37.5°	4867.4	4832.2	4649.5	4457.3	4047.1	3576.1	3242.8	2967.2	2941.6	2704.5	2380.8
40°	5133.4	5098.2	5046.9	4992.4	4764.9	4233.0	3678.6	3303.7	3262.1	3037.7	2688.5
42.5°	5271.2	5242.4	5252.0	5360.9	5425.0	5341.7	4300.3	3752.3	3723.5	3451.1	3063.4
45°	5191.1	5171.9	5264.8	5553.2	5867.2	6482.4	5098.2	4341.9	4265.0	3941.4	3518.4
47.5°	4806.6	4748.9	4966.8	5457.0	6130.0	7027.2	6059.5	5069.3	4986.0	4521.4	3979.8
50°	4015.1	3999.1	4297.1	4918.7	6027.4	7241.9	7088.1	5928.1	5867.2	5146.2	4492.5
52.5°	3278.1	3271.7	3502.4	4072.8	5373.7	7091.3	7834.7	6950.3	6767.6	5774.3	5050.1
55°	2544.3	2541.1	2746.1	3172.3	4287.4	6383.1	8187.2	7991.7	7857.1	6460.0	5623.7
57.5°	1740.0	1717.5	1983.5	2307.1	3220.4	5056.5	7956.5	8815.2	8731.9	7187.4	6232.5
60°	967.7	999.8	1294.6	1695.1	2303.9	3406.2	6995.1	9170.9	9158.1	7767.4	6729.2
62.5°	685.7	698.6	823.5	1204.8	1515.7	1951.5	5396.2	8802.4	8904.9	8087.8	7011.2
65°	570.4	576.8	637.7	890.8	1108.7	1127.9	3364.6	7709.7	7844.3	7988.5	7072.0
67.5°	538.3	541.5	573.6	656.9	868.4	817.1	1502.9	5886.4	6171.6	7187.4	6674.7
70°	490.3	493.5	541.5	580.0	701.8	644.1	772.3	3909.3	4293.9	5681.4	5755.1
72.5°	419.8	429.4	467.8	544.7	570.4	535.1	596.0	2089.3	2470.6	3800.4	4444.5
75°	362.1	368.5	397.3	461.4	535.1	426.2	506.3	951.7	1115.1	2230.2	2813.4
77.5°	291.6	294.8	336.5	378.1	448.6	346.1	394.1	570.4	599.2	1089.5	1272.1
80°	221.1	221.1	249.9	301.2	333.3	333.3	288.4	397.3	413.4	519.1	503.1
82.5°	169.8	166.6	189.1	211.5	240.3	278.8	217.9	262.8	269.2	314.0	269.2
85°	112.2	112.2	125.0	144.2	160.2	153.8	169.8	153.8	160.2	195.5	147.4
87.5°	48.1	48.1	67.3	64.1	70.5	73.7	83.3	73.7	73.7	89.7	67.3
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°	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5
2.5°	1368.3	1371.5	1377.9	1381.1	1390.7	1393.9	1393.9	1400.3	1400.3	1406.7	1406.7
5°	1377.9	1387.5	1397.1	1406.7	1416.3	1419.5	1425.9	1429.1	1429.1	1435.6	1432.4
7.5°	1397.1	1406.7	1425.9	1435.6	1448.4	1454.8	1451.6	1454.8	1451.6	1454.8	1454.8
10°	1422.7	1435.6	1458.0	1470.8	1480.4	1483.6	1474.0	1464.4	1451.6	1451.6	1451.6
12.5°	1451.6	1461.2	1490.0	1499.6	1506.1	1496.4	1470.8	1451.6	1442.0	1445.2	1442.0
15°	1480.4	1490.0	1512.5	1522.1	1522.1	1493.2	1470.8	1464.4	1461.2	1464.4	1464.4
17.5°	1509.3	1518.9	1538.1	1538.1	1528.5	1506.1	1483.6	1461.2	1445.2	1435.6	1435.6
20°	1547.7	1547.7	1554.1	1554.1	1550.9	1515.7	1461.2	1406.7	1374.7	1355.4	1352.2
22.5°	1599.0	1586.2	1573.3	1573.3	1586.2	1493.2	1387.5	1304.2	1252.9	1246.5	1233.7
25°	1653.5	1624.6	1592.6	1615.0	1592.6	1435.6	1285.0	1172.8	1111.9	1089.5	1095.9
27.5°	1711.1	1666.3	1618.2	1682.3	1560.5	1323.4	1140.8	1015.8	958.1	942.1	942.1
30°	1791.2	1724.0	1653.5	1752.8	1499.6	1195.2	970.9	881.2	849.2	836.3	833.1
32.5°	1945.1	1842.5	1740.0	1816.9	1432.4	1028.6	855.6	801.1	762.6	749.8	759.4
35°	2082.8	1938.6	1871.4	1845.7	1326.6	894.0	785.1	737.0	705.0	688.9	688.9
37.5°	2207.8	2070.0	2018.8	1845.7	1188.8	810.7	740.2	701.8	660.1	647.3	647.3
40°	2480.2	2297.5	2207.8	1820.1	1019.0	769.0	717.8	672.9	637.7	624.9	621.6
42.5°	2855.1	2608.4	2403.3	1762.4	874.8	749.8	705.0	653.7	624.9	615.2	612.0
45°	3252.4	3034.5	2589.1	1659.9	781.9	730.6	701.8	647.3	612.0	602.4	599.2
47.5°	3733.1	3508.8	2803.8	1502.9	717.8	717.8	698.6	637.7	605.6	596.0	596.0
50°	4265.0	4079.2	3076.2	1323.4	669.7	708.2	692.1	637.7	602.4	592.8	589.6
52.5°	4809.8	4723.2	3361.4	1147.2	621.6	695.3	688.9	637.7	596.0	586.4	586.4
55°	5501.9	5431.4	3691.4	1015.8	583.2	669.7	688.9	631.3	586.4	580.0	580.0
57.5°	6181.2	6155.6	3947.8	900.4	554.4	637.7	679.3	621.6	576.8	573.6	573.6
60°	6761.2	6735.6	4056.7	756.2	525.5	605.6	660.1	605.6	560.8	564.0	564.0
62.5°	7120.1	6972.7	3976.6	624.9	496.7	576.8	637.7	586.4	544.7	554.4	551.2
65°	7184.2	6841.3	3665.8	522.3	464.6	544.7	612.0	564.0	522.3	544.7	541.5
67.5°	6713.2	6142.8	3082.6	455.0	432.6	509.5	583.2	531.9	496.7	528.7	519.1
70°	5694.2	4989.2	2281.5	403.8	400.5	467.8	544.7	493.5	461.4	477.5	464.6
72.5°	4239.4	3601.7	1477.2	365.3	365.3	419.8	490.3	445.4	413.4	416.6	403.8
75°	2643.6	2214.2	839.5	330.1	330.1	371.7	435.8	390.9	368.5	355.7	371.7
77.5°	1201.6	974.1	442.2	294.8	298.0	317.2	374.9	333.3	307.6	288.4	298.0
80°	445.4	397.3	288.4	253.1	259.6	262.8	301.2	266.0	243.5	230.7	224.3
82.5°	230.7	214.7	195.5	201.9	211.5	201.9	233.9	198.7	173.0	163.4	137.8
85°	115.4	112.2	118.6	134.6	147.4	125.0	141.0	128.2	105.7	76.9	76.9
87.5°	44.9	48.1	44.9	60.9	67.3	57.7	64.1	44.9	32.0	16.0	12.8
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)