

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: P572763

Luminaire Tested: **ARCH-S-PA2-110-750-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-110-750-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10330 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

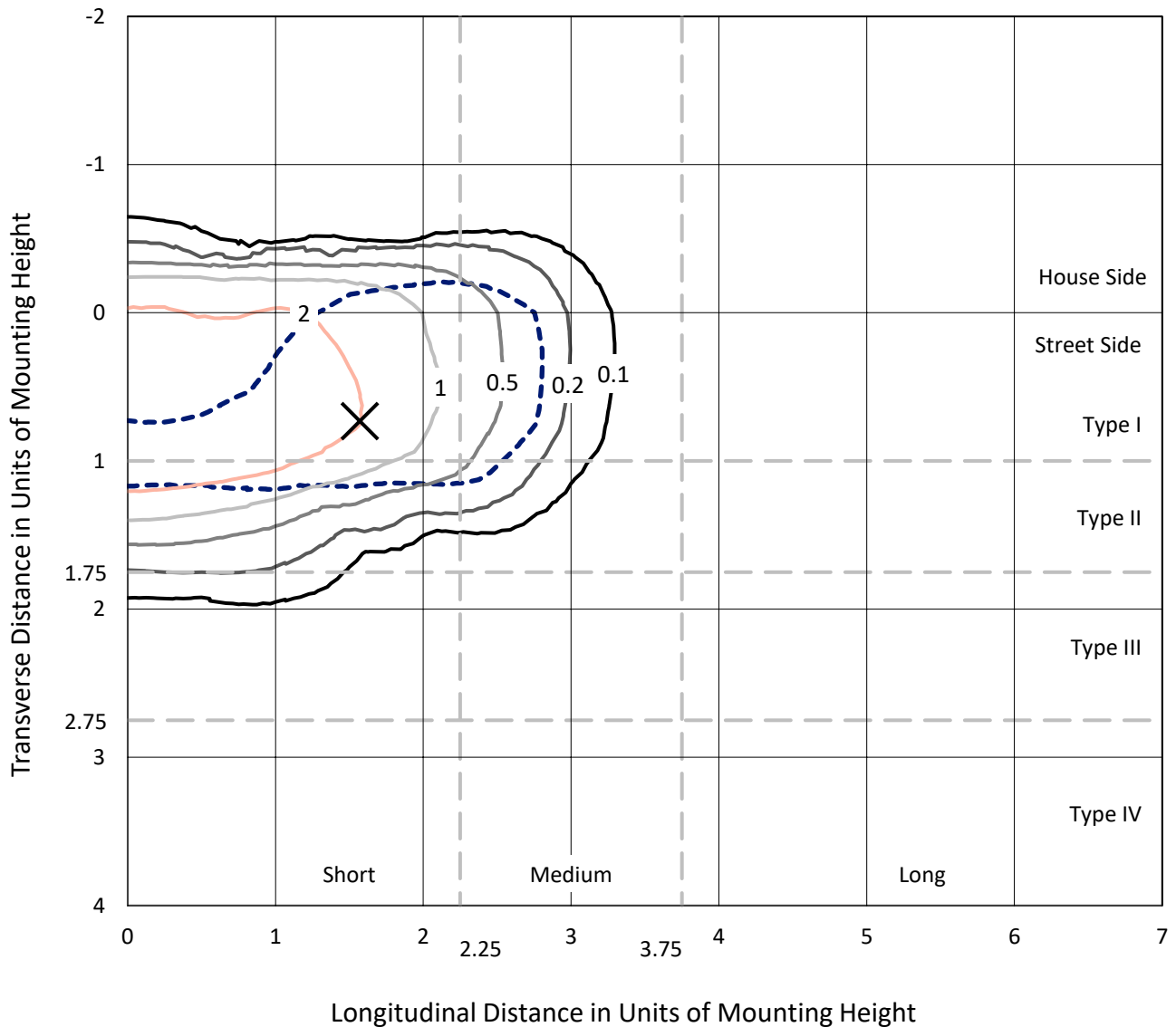
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

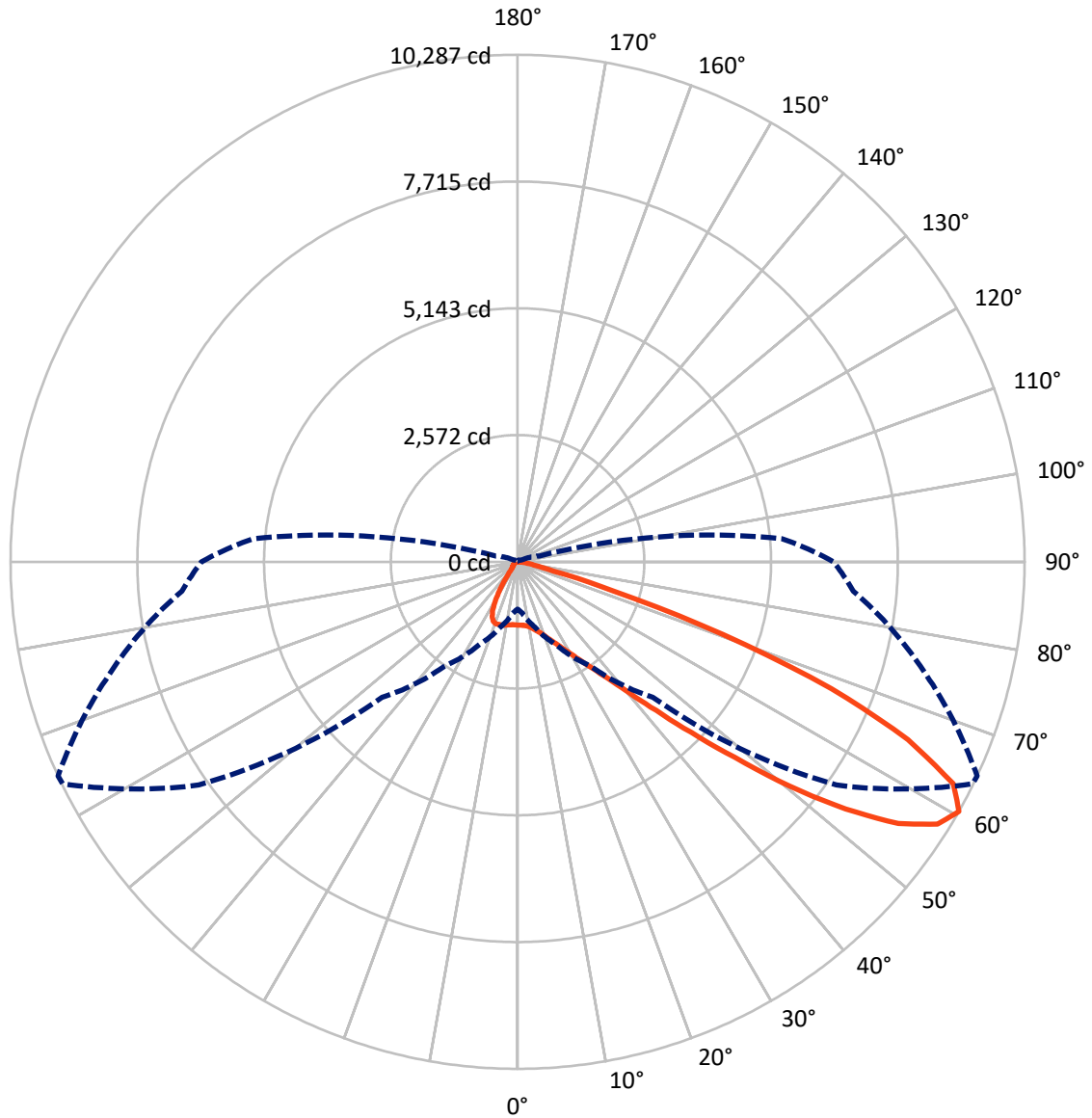
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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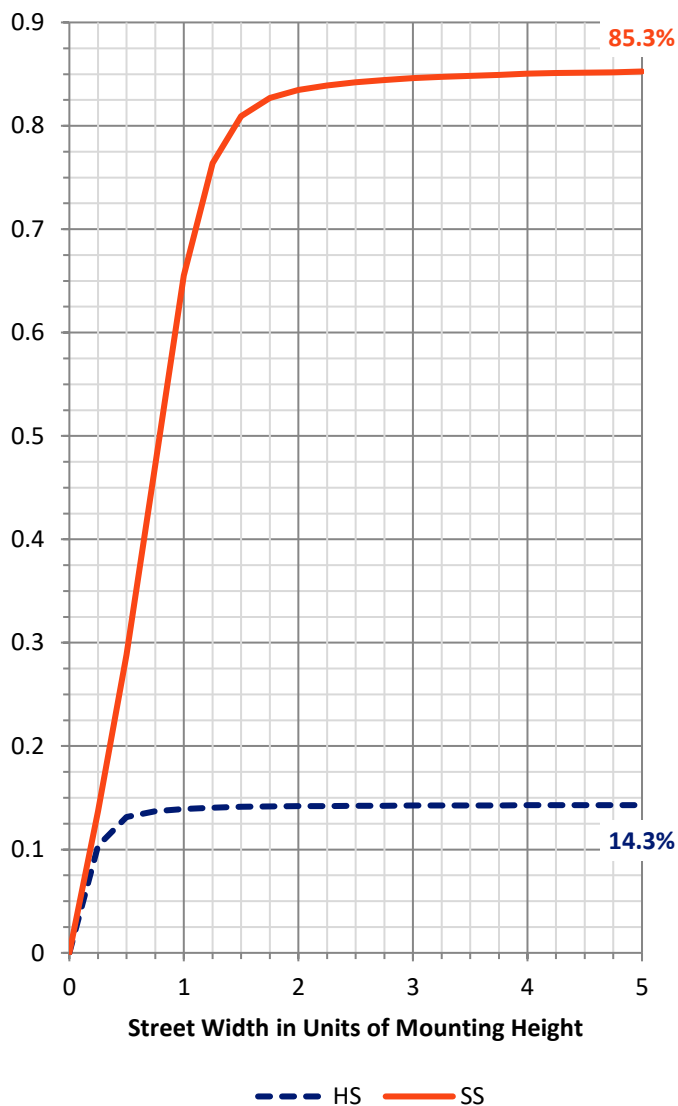
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1495.5	0.0	1495.5
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	8834.5	0.0	8834.5
	% Fixture	85.5	0.0	85.5
Total	Lumens	10330.0	0.0	10330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	1.2
10°-20°	345.1	3.3
20°-30°	586.1	5.7
30°-40°	1209.4	11.7
40°-50°	2432.3	23.5
50°-60°	2976.4	28.8
60°-70°	2105.7	20.4
70°-80°	507.4	4.9
80°-90°	45.8	0.4
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°	10330.0	100.0
0°-180°	10330.0	100.0

Coefficient of Utilization

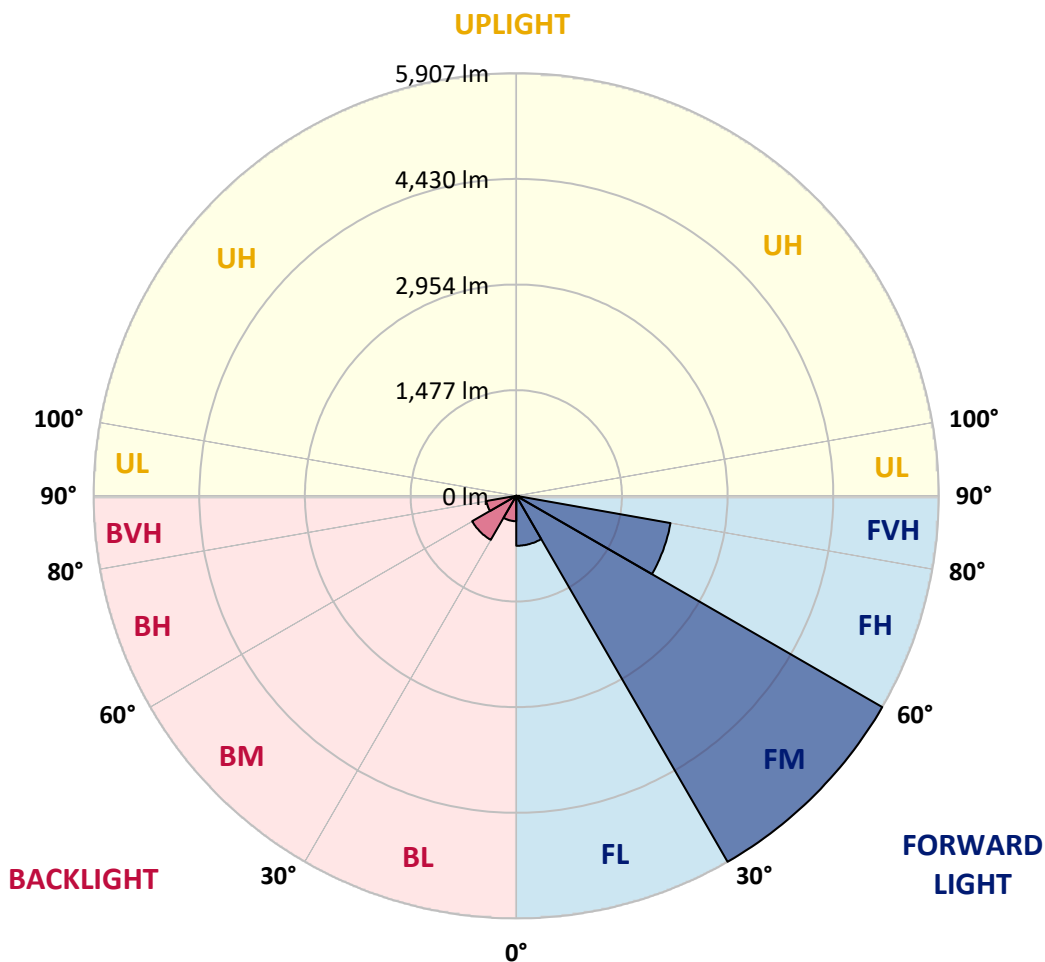


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.3	6.8			
FM (30°-60°)	5907.1	57.2			
FH (60°-80°)	2189.2	21.2			G2/5000
FVH (80°-90°)	39.9	0.4			G1/100
BL (0°-30°)	354.5	3.4	B1/500		
BM (30°-60°)	711.1	6.9	B1/1000		
BH (60°-80°)	423.9	4.1	B1/500		G1/500
BVH (80°-90°)	6.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9
2.5°	1290.9	1286.9	1286.9	1286.9	1290.9	1290.9	1295.0	1286.9	1286.9	1286.9	1286.9
5°	1282.8	1278.7	1278.7	1282.8	1286.9	1286.9	1295.0	1295.0	1295.0	1299.1	1299.1
7.5°	1299.1	1290.9	1290.9	1295.0	1299.1	1299.1	1307.2	1311.3	1311.3	1319.4	1323.5
10°	1319.4	1315.4	1315.4	1323.5	1331.7	1331.7	1343.9	1343.9	1343.9	1352.0	1356.1
12.5°	1347.9	1343.9	1343.9	1356.1	1368.3	1376.5	1384.6	1388.7	1392.7	1392.7	1392.7
15°	1388.7	1384.6	1384.6	1396.8	1413.1	1433.5	1445.7	1445.7	1453.8	1449.8	1433.5
17.5°	1445.7	1441.6	1445.7	1453.8	1474.2	1494.5	1519.0	1523.1	1519.0	1510.8	1486.4
20°	1539.3	1527.1	1535.3	1555.6	1555.6	1567.9	1600.4	1612.6	1616.7	1592.3	1547.5
22.5°	1637.1	1637.1	1645.2	1669.7	1653.4	1669.7	1698.2	1718.5	1726.7	1706.3	1633.0
25°	1820.3	1828.5	1816.3	1808.1	1767.4	1775.5	1812.2	1852.9	1852.9	1836.6	1730.7
27.5°	2223.5	2215.4	2129.8	2011.7	1905.9	1914.0	1950.7	2003.6	2007.7	1971.0	1828.5
30°	2801.8	2809.9	2642.9	2374.2	2142.1	2081.0	2121.7	2182.8	2190.9	2129.8	1954.7
32.5°	3705.8	3636.6	3327.1	2968.7	2533.0	2313.1	2329.4	2394.5	2419.0	2366.0	2154.3
35°	4874.6	4711.7	4247.5	3803.6	3172.4	2728.5	2602.2	2671.5	2683.7	2655.2	2402.7
37.5°	5571.0	5440.6	5139.3	4736.1	3995.0	3282.3	2960.6	3029.8	3017.6	2960.6	2651.1
40°	6002.6	5929.3	5766.4	5579.1	5106.7	4153.8	3551.1	3494.1	3498.1	3416.7	3054.3
42.5°	6247.0	6181.8	6120.7	6169.6	6031.1	5733.9	4406.3	4145.6	4121.2	3966.5	3522.6
45°	6259.2	6161.5	6234.8	6519.8	6739.7	7134.7	5522.1	4919.4	4931.6	4675.0	4104.9
47.5°	5790.9	5713.5	5925.3	6483.2	7212.1	8051.0	6821.2	5978.2	5921.2	5416.2	4695.4
50°	4866.4	4862.4	5143.4	5933.4	7212.1	8523.4	8213.9	7220.3	7159.2	6190.0	5233.0
52.5°	3852.4	3929.8	4121.2	4870.5	6548.3	8478.6	9240.1	8503.0	8332.0	6878.2	5680.9
55°	2997.2	2968.7	3200.9	3718.0	5192.2	7704.9	9574.1	9513.0	9370.5	7489.0	6075.9
57.5°	1840.7	1946.6	2260.1	2720.3	3779.1	6059.6	9093.5	10127.9	10042.4	8059.2	6487.2
60°	957.0	1038.4	1376.5	1857.0	2581.9	3885.0	7892.2	10270.4	10286.7	8519.3	6837.5
62.5°	602.7	598.6	753.4	1303.1	1661.5	2182.8	6128.9	9765.5	9920.2	8873.6	7171.4
65°	452.0	456.1	517.2	863.3	1128.0	1140.3	3636.6	8446.0	8702.6	8967.3	7285.4
67.5°	419.5	423.5	452.0	566.1	847.0	761.5	1600.4	6511.7	6870.0	8104.0	6845.6
70°	374.7	378.7	423.5	468.3	639.4	557.9	720.8	3921.7	4418.5	5880.5	5477.3
72.5°	293.2	301.4	354.3	443.9	476.5	423.5	500.9	1734.8	2024.0	3233.4	3135.7
75°	215.8	219.9	268.8	342.1	419.5	301.4	386.9	688.2	753.4	1213.6	1034.4
77.5°	150.7	150.7	187.3	256.6	350.2	211.8	276.9	370.6	378.7	452.0	297.3
80°	93.7	97.7	118.1	175.1	215.8	203.6	171.0	248.4	248.4	236.2	122.2
82.5°	52.9	57.0	81.4	118.1	146.6	138.5	110.0	142.5	146.6	150.7	69.2
85°	24.4	28.5	48.9	73.3	85.5	65.2	65.2	73.3	73.3	97.7	40.7
87.5°	4.1	4.1	24.4	32.6	28.5	32.6	32.6	40.7	40.7	48.9	20.4
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°	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9	1286.9
2.5°	1282.8	1282.8	1282.8	1278.7	1278.7	1274.6	1266.5	1266.5	1266.5	1266.5	1270.6
5°	1299.1	1295.0	1290.9	1278.7	1270.6	1254.3	1238.0	1233.9	1221.7	1221.7	1225.8
7.5°	1319.4	1319.4	1307.2	1286.9	1266.5	1238.0	1209.5	1189.1	1168.8	1164.7	1160.6
10°	1356.1	1347.9	1335.7	1299.1	1266.5	1221.7	1176.9	1124.0	1083.2	1062.9	1054.7
12.5°	1384.6	1380.5	1356.1	1315.4	1262.4	1193.2	1091.4	969.2	871.5	818.5	818.5
15°	1425.3	1417.2	1380.5	1323.5	1250.2	1087.3	879.6	692.3	586.4	529.4	521.3
17.5°	1466.0	1449.8	1405.0	1327.6	1197.3	895.9	614.9	443.9	370.6	342.1	333.9
20°	1514.9	1486.4	1421.2	1331.7	1067.0	651.6	399.1	297.3	268.8	256.6	260.6
22.5°	1580.1	1531.2	1437.5	1307.2	871.5	423.5	281.0	240.3	224.0	211.8	211.8
25°	1661.5	1592.3	1466.0	1238.0	631.2	285.1	224.0	199.5	183.3	175.1	171.0
27.5°	1734.8	1649.3	1494.5	1115.8	403.2	224.0	187.3	167.0	150.7	146.6	142.5
30°	1832.6	1714.5	1523.1	920.3	264.7	183.3	158.8	138.5	126.2	122.2	122.2
32.5°	1999.5	1840.7	1576.0	700.4	199.5	158.8	134.4	118.1	110.0	105.9	105.9
35°	2195.0	1995.4	1620.8	488.7	171.0	134.4	114.0	101.8	97.7	93.7	93.7
37.5°	2398.6	2178.7	1628.9	309.5	150.7	118.1	101.8	93.7	85.5	85.5	85.5
40°	2765.1	2500.4	1592.3	207.7	130.3	105.9	89.6	85.5	77.4	77.4	77.4
42.5°	3192.7	2891.4	1498.6	167.0	118.1	93.7	85.5	77.4	69.2	69.2	65.2
45°	3746.6	3335.2	1339.8	146.6	105.9	85.5	77.4	69.2	65.2	61.1	61.1
47.5°	4267.8	3840.2	1189.1	130.3	97.7	81.4	69.2	61.1	57.0	57.0	57.0
50°	4764.6	4227.1	1014.0	122.2	89.6	77.4	65.2	57.0	52.9	48.9	48.9
52.5°	5123.0	4532.5	851.1	110.0	81.4	69.2	61.1	52.9	44.8	40.7	40.7
55°	5522.1	4842.0	704.5	97.7	77.4	65.2	52.9	44.8	36.7	32.6	32.6
57.5°	5970.1	5143.4	570.1	89.6	73.3	57.0	44.8	36.7	28.5	24.4	24.4
60°	6413.9	5383.6	456.1	81.4	65.2	52.9	40.7	28.5	20.4	16.3	16.3
62.5°	6857.8	5546.5	350.2	73.3	61.1	44.8	32.6	20.4	12.2	8.1	8.1
65°	7041.1	5501.7	260.6	65.2	52.9	36.7	28.5	20.4	12.2	8.1	8.1
67.5°	6532.0	4947.9	183.3	65.2	48.9	36.7	24.4	16.3	8.1	4.1	4.1
70°	5098.6	3819.9	134.4	65.2	48.9	36.7	24.4	16.3	8.1	4.1	4.1
72.5°	2891.4	2125.8	101.8	57.0	44.8	32.6	24.4	16.3	8.1	4.1	4.1
75°	1030.3	684.2	77.4	52.9	40.7	28.5	24.4	16.3	8.1	4.1	4.1
77.5°	248.4	175.1	61.1	44.8	36.7	28.5	20.4	16.3	12.2	4.1	4.1
80°	101.8	73.3	48.9	36.7	28.5	24.4	20.4	16.3	8.1	4.1	4.1
82.5°	44.8	36.7	20.4	20.4	16.3	16.3	16.3	16.3	8.1	4.1	4.1
85°	20.4	16.3	8.1	8.1	4.1	4.1	4.1	8.1	8.1	4.1	4.1
87.5°	12.2	8.1	8.1	8.1	4.1	4.1	4.1	0.0	0.0	0.0	0.0
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)