

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: P573142

Luminaire Tested: **ARCH-S-PA2-40-730-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573142
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-PA2-40-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6027 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

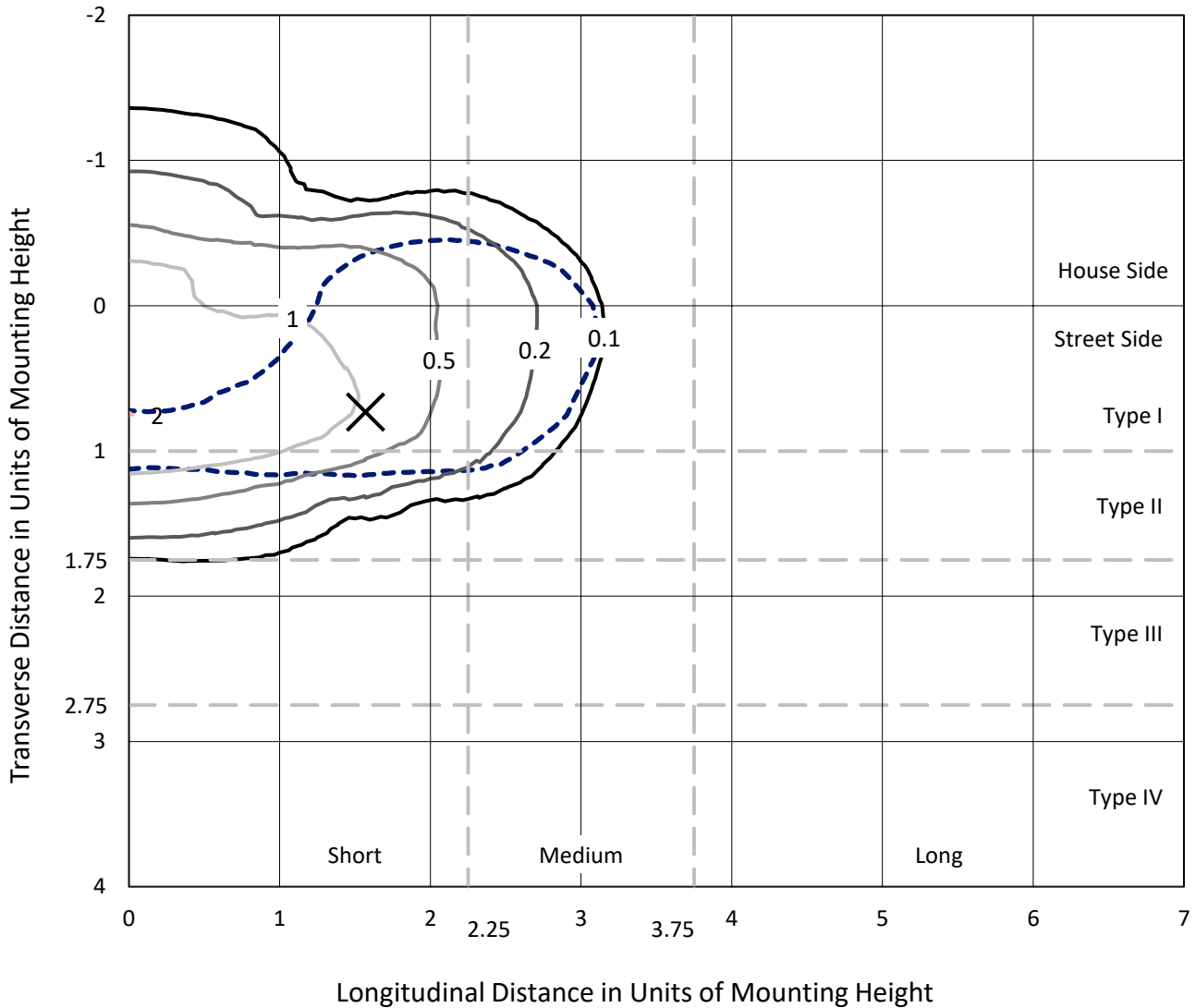
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

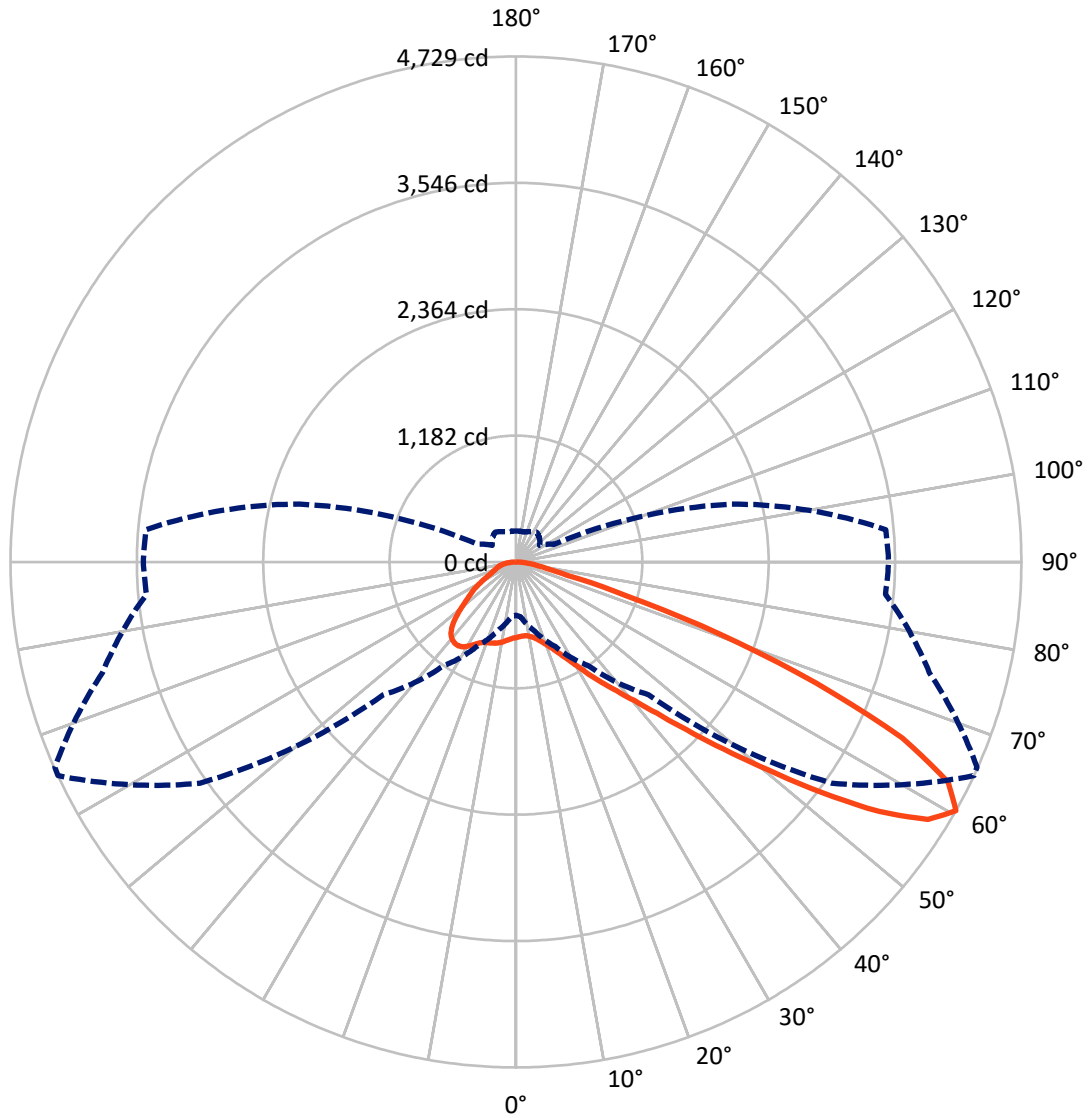
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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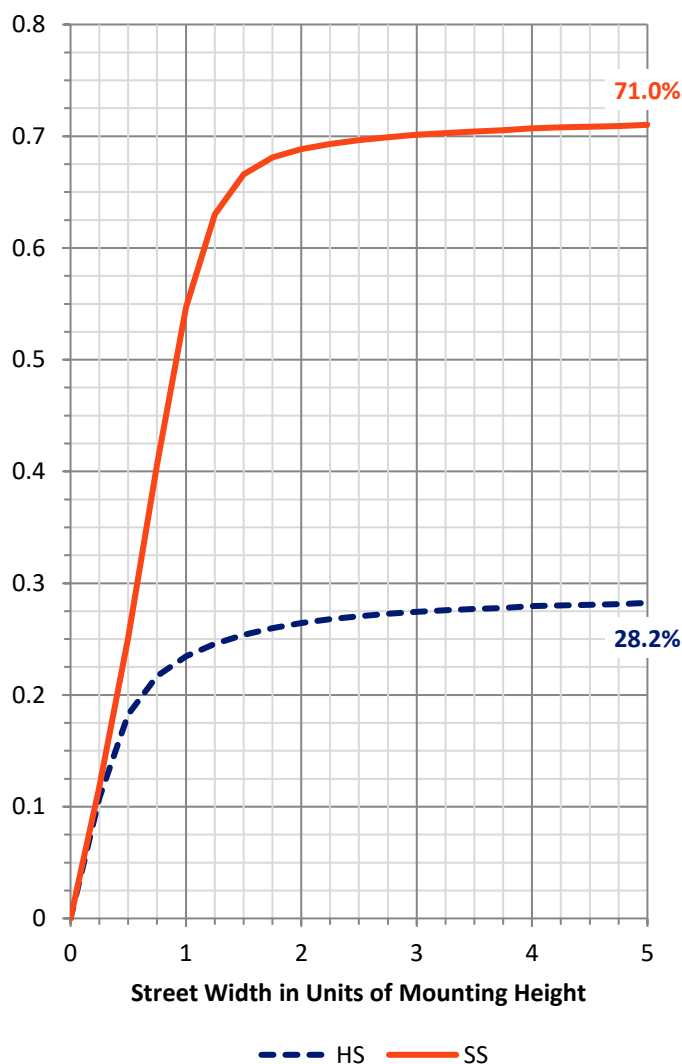
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1725.4	0.0	1725.4
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	4301.6	0.0	4301.6
	% Fixture	71.4	0.0	71.4
Total	Lumens	6027.0	0.0	6027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	1.1
10°-20°	219.9	3.6
20°-30°	421.5	7.0
30°-40°	732.1	12.1
40°-50°	1241.6	20.6
50°-60°	1546.0	25.7
60°-70°	1245.8	20.7
70°-80°	471.8	7.8
80°-90°	80.0	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°	6027.0	100.0
0°-180°	6027.0	100.0

Coefficient of Utilization

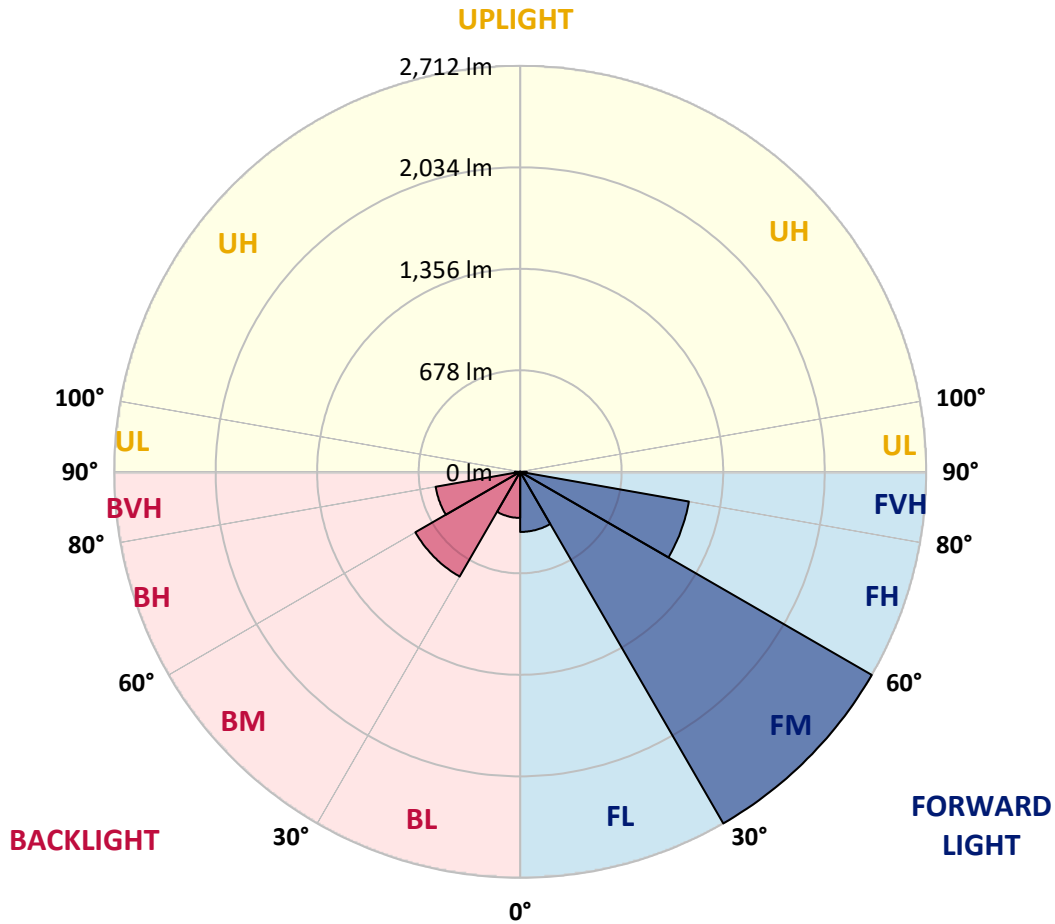


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.8	6.7			
FM (30°-60°)	2711.6	45.0			
FH (60°-80°)	1143.9	19.0			G1/1800
FVH (80°-90°)	44.4	0.7			G1/100
BL (0°-30°)	307.9	5.1	B1/500		
BM (30°-60°)	808.1	13.4	B1/1000		
BH (60°-80°)	573.7	9.5	B2/1000		G2/1000
BVH (80°-90°)	35.6	0.6			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1
2.5°	690.6	690.6	690.6	692.3	693.9	695.6	698.9	698.9	698.9	700.5	703.8
5°	677.4	675.8	677.4	679.1	682.4	685.7	692.3	695.6	695.6	702.2	708.8
7.5°	679.1	675.8	675.8	677.4	680.7	684.0	690.6	695.6	697.2	705.5	717.1
10°	695.6	690.6	690.6	692.3	692.3	695.6	700.5	707.1	708.8	717.1	728.6
12.5°	730.3	725.3	723.7	718.7	713.8	717.1	722.0	723.7	725.3	730.3	741.8
15°	803.0	794.7	781.5	771.6	758.4	750.1	748.5	750.1	750.1	751.8	758.4
17.5°	907.1	897.2	877.3	855.8	824.5	798.0	789.8	783.2	783.2	778.2	778.2
20°	1034.3	1019.4	996.3	964.9	918.6	870.7	842.6	827.8	822.8	814.5	803.0
22.5°	1181.3	1171.4	1141.7	1093.8	1024.4	959.9	913.7	880.6	880.6	860.8	836.0
25°	1354.8	1336.6	1301.9	1245.8	1151.6	1059.1	996.3	948.4	943.4	912.0	872.4
27.5°	1523.3	1511.8	1468.8	1394.5	1282.1	1174.7	1087.2	1031.0	1022.7	973.2	912.0
30°	1728.2	1715.0	1650.6	1546.5	1425.9	1303.6	1201.2	1128.5	1120.2	1052.5	966.5
32.5°	1982.7	1938.0	1858.7	1739.8	1584.5	1447.3	1330.0	1252.4	1242.5	1164.8	1062.4
35°	2291.6	2253.6	2116.5	1990.9	1805.9	1625.8	1485.3	1382.9	1369.7	1277.2	1148.3
37.5°	2509.7	2491.5	2397.4	2298.2	2086.7	1843.9	1672.0	1530.0	1516.7	1394.5	1227.6
40°	2646.8	2628.7	2602.2	2574.2	2456.8	2182.6	1896.7	1703.4	1682.0	1566.3	1386.2
42.5°	2717.9	2703.0	2708.0	2764.2	2797.2	2754.2	2217.3	1934.7	1919.9	1779.4	1579.5
45°	2676.6	2666.7	2714.6	2863.3	3025.2	3342.4	2628.7	2238.8	2199.1	2032.2	1814.1
47.5°	2478.3	2448.6	2560.9	2813.7	3160.7	3623.3	3124.3	2613.8	2570.8	2331.3	2052.1
50°	2070.2	2062.0	2215.6	2536.2	3107.8	3734.0	3654.7	3056.6	3025.2	2653.5	2316.4
52.5°	1690.2	1686.9	1805.9	2100.0	2770.8	3656.4	4039.7	3583.7	3489.5	2977.3	2603.9
55°	1311.9	1310.2	1415.9	1635.7	2210.7	3291.2	4221.4	4120.6	4051.2	3330.9	2899.6
57.5°	897.2	885.6	1022.7	1189.6	1660.5	2607.2	4102.5	4545.2	4502.3	3705.9	3213.6
60°	499.0	515.5	667.5	874.0	1187.9	1756.3	3606.8	4728.6	4722.0	4005.0	3469.7
62.5°	353.6	360.2	424.6	621.2	781.5	1006.2	2782.3	4538.6	4591.5	4170.2	3615.0
65°	294.1	297.4	328.8	459.3	571.7	581.6	1734.8	3975.2	4044.6	4119.0	3646.4
67.5°	277.6	279.2	295.7	338.7	447.8	421.3	774.9	3035.1	3182.2	3705.9	3441.6
70°	252.8	254.4	279.2	299.1	361.8	332.1	398.2	2015.7	2214.0	2929.4	2967.4
72.5°	216.4	221.4	241.2	280.9	294.1	275.9	307.3	1077.2	1273.9	1959.5	2291.6
75°	186.7	190.0	204.9	237.9	275.9	219.7	261.1	490.7	575.0	1149.9	1450.6
77.5°	150.4	152.0	173.5	195.0	231.3	178.4	203.2	294.1	309.0	561.8	655.9
80°	114.0	114.0	128.9	155.3	171.8	171.8	148.7	204.9	213.1	267.7	259.4
82.5°	87.6	85.9	97.5	109.0	123.9	143.7	112.4	135.5	138.8	161.9	138.8
85°	57.8	57.8	64.4	74.3	82.6	79.3	87.6	79.3	82.6	100.8	76.0
87.5°	24.8	24.8	34.7	33.0	36.3	38.0	43.0	38.0	38.0	46.3	34.7
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°	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1
2.5°	705.5	707.1	710.5	712.1	717.1	718.7	718.7	722.0	722.0	725.3	725.3
5°	710.5	715.4	720.4	725.3	730.3	731.9	735.2	736.9	736.9	740.2	738.5
7.5°	720.4	725.3	735.2	740.2	746.8	750.1	748.5	750.1	748.5	750.1	750.1
10°	733.6	740.2	751.8	758.4	763.3	765.0	760.0	755.1	748.5	748.5	748.5
12.5°	748.5	753.4	768.3	773.2	776.5	771.6	758.4	748.5	743.5	745.1	743.5
15°	763.3	768.3	779.8	784.8	784.8	769.9	758.4	755.1	753.4	755.1	755.1
17.5°	778.2	783.2	793.1	793.1	788.1	776.5	765.0	753.4	745.1	740.2	740.2
20°	798.0	798.0	801.3	801.3	799.7	781.5	753.4	725.3	708.8	698.9	697.2
22.5°	824.5	817.8	811.2	811.2	817.8	769.9	715.4	672.5	646.0	642.7	636.1
25°	852.5	837.7	821.2	832.7	821.2	740.2	662.5	604.7	573.3	561.8	565.1
27.5°	882.3	859.2	834.4	867.4	804.6	682.4	588.2	523.8	494.0	485.8	485.8
30°	923.6	888.9	852.5	903.8	773.2	616.3	500.6	454.4	437.8	431.2	429.6
32.5°	1002.9	950.0	897.2	936.8	738.5	530.4	441.1	413.1	393.2	386.6	391.6
35°	1073.9	999.6	964.9	951.7	684.0	461.0	404.8	380.0	363.5	355.2	355.2
37.5°	1138.4	1067.3	1040.9	951.7	613.0	418.0	381.7	361.8	340.4	333.7	333.7
40°	1278.8	1184.6	1138.4	938.5	525.4	396.5	370.1	347.0	328.8	322.2	320.5
42.5°	1472.1	1344.9	1239.2	908.7	451.1	386.6	363.5	337.1	322.2	317.2	315.6
45°	1677.0	1564.6	1335.0	855.8	403.1	376.7	361.8	333.7	315.6	310.6	309.0
47.5°	1924.8	1809.2	1445.7	774.9	370.1	370.1	360.2	328.8	312.3	307.3	307.3
50°	2199.1	2103.3	1586.1	682.4	345.3	365.1	356.9	328.8	310.6	305.7	304.0
52.5°	2480.0	2435.4	1733.2	591.5	320.5	358.5	355.2	328.8	307.3	302.4	302.4
55°	2836.9	2800.5	1903.4	523.8	300.7	345.3	355.2	325.5	302.4	299.1	299.1
57.5°	3187.1	3173.9	2035.5	464.3	285.8	328.8	350.3	320.5	297.4	295.7	295.7
60°	3486.2	3473.0	2091.7	389.9	271.0	312.3	340.4	312.3	289.1	290.8	290.8
62.5°	3671.2	3595.2	2050.4	322.2	256.1	297.4	328.8	302.4	280.9	285.8	284.2
65°	3704.3	3527.5	1890.1	269.3	239.6	280.9	315.6	290.8	269.3	280.9	279.2
67.5°	3461.4	3167.3	1589.4	234.6	223.0	262.7	300.7	274.3	256.1	272.6	267.7
70°	2936.0	2572.5	1176.4	208.2	206.5	241.2	280.9	254.4	237.9	246.2	239.6
72.5°	2185.9	1857.1	761.7	188.4	188.4	216.4	252.8	229.7	213.1	214.8	208.2
75°	1363.1	1141.7	432.9	170.2	170.2	191.7	224.7	201.6	190.0	183.4	191.7
77.5°	619.6	502.3	228.0	152.0	153.7	163.6	193.3	171.8	158.6	148.7	153.7
80°	229.7	204.9	148.7	130.5	133.8	135.5	155.3	137.1	125.6	119.0	115.7
82.5°	119.0	110.7	100.8	104.1	109.0	104.1	120.6	102.4	89.2	84.3	71.0
85°	59.5	57.8	61.1	69.4	76.0	64.4	72.7	66.1	54.5	39.7	39.7
87.5°	23.1	24.8	23.1	31.4	34.7	29.7	33.0	23.1	16.5	8.3	6.6
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)