

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: P573052

Luminaire Tested: **ARCH-S-PA2-30-727-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573052
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-PA2-30-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4334 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

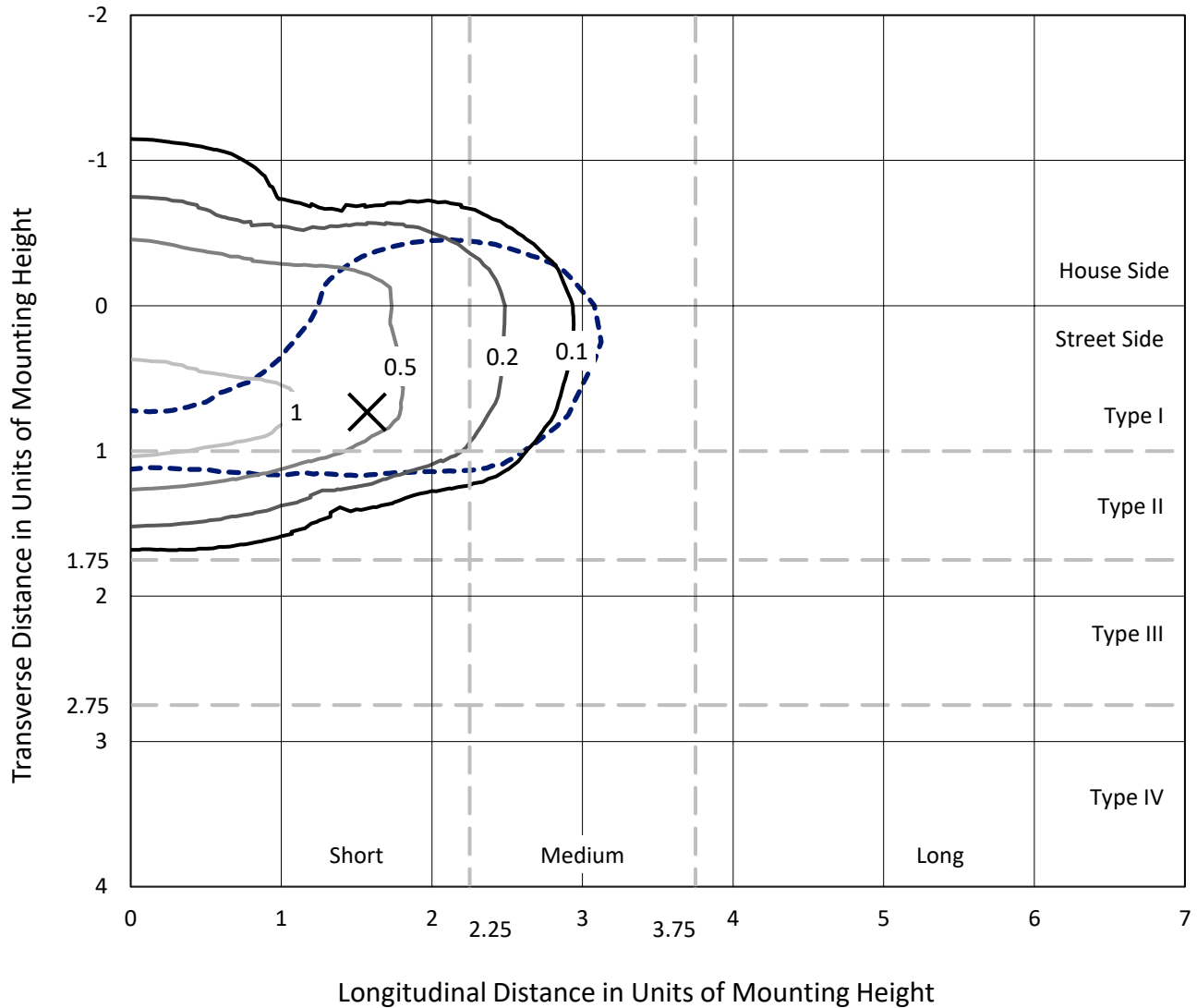
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

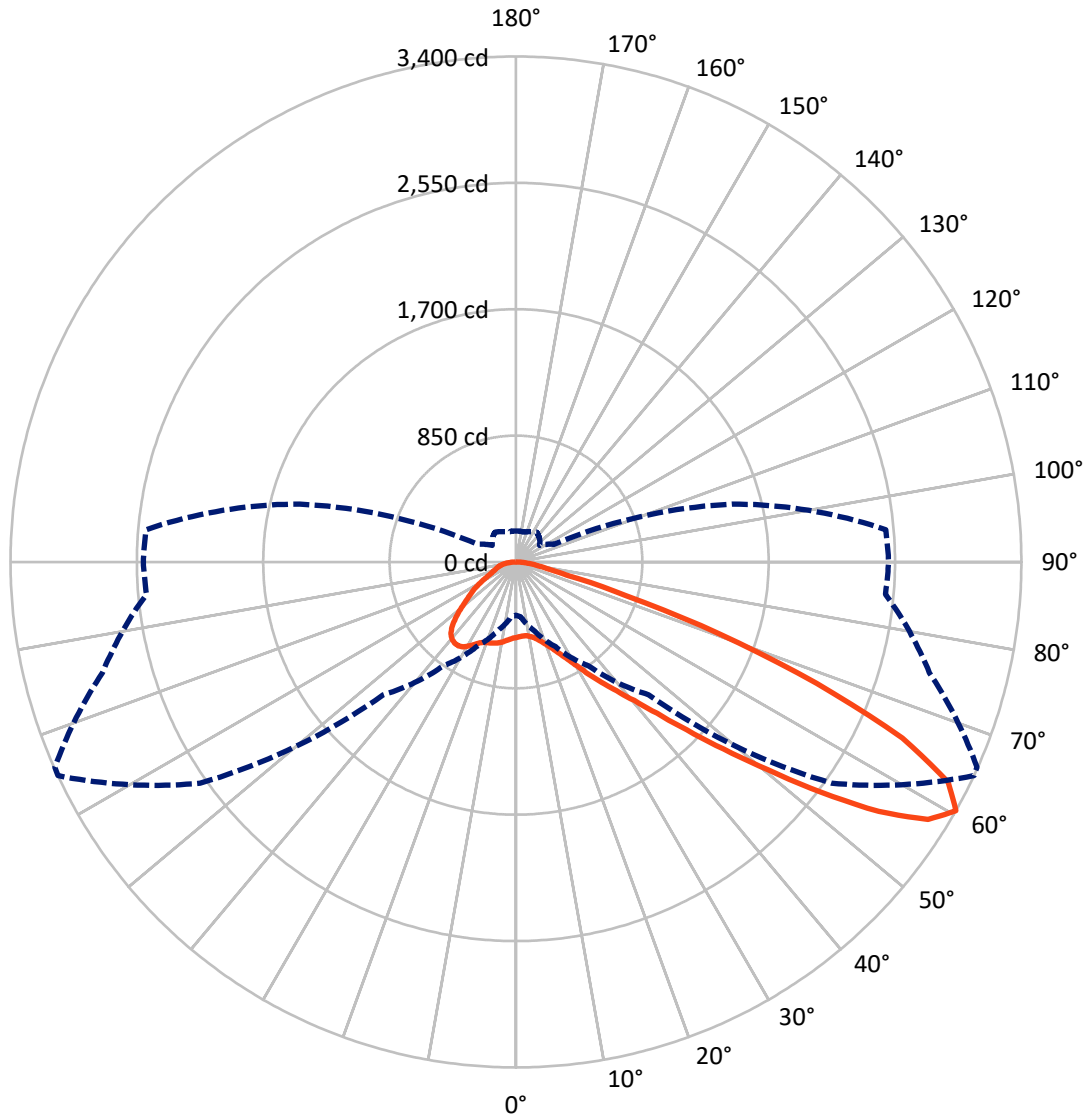
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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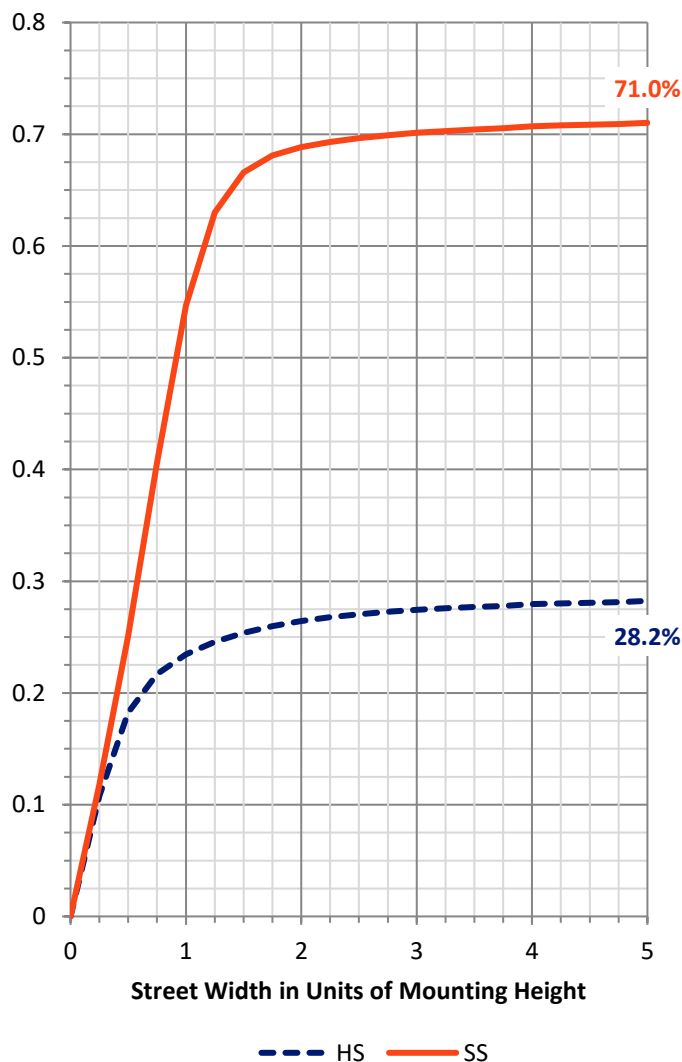
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1240.7	0.0	1240.7
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	3093.3	0.0	3093.3
	% Fixture	71.4	0.0	71.4
Total	Lumens	4334.0	0.0	4334.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.1
10°-20°	158.1	3.6
20°-30°	303.1	7.0
30°-40°	526.4	12.1
40°-50°	892.8	20.6
50°-60°	1111.7	25.7
60°-70°	895.9	20.7
70°-80°	339.2	7.8
80°-90°	57.5	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°	4334.0	100.0
0°-180°	4334.0	100.0



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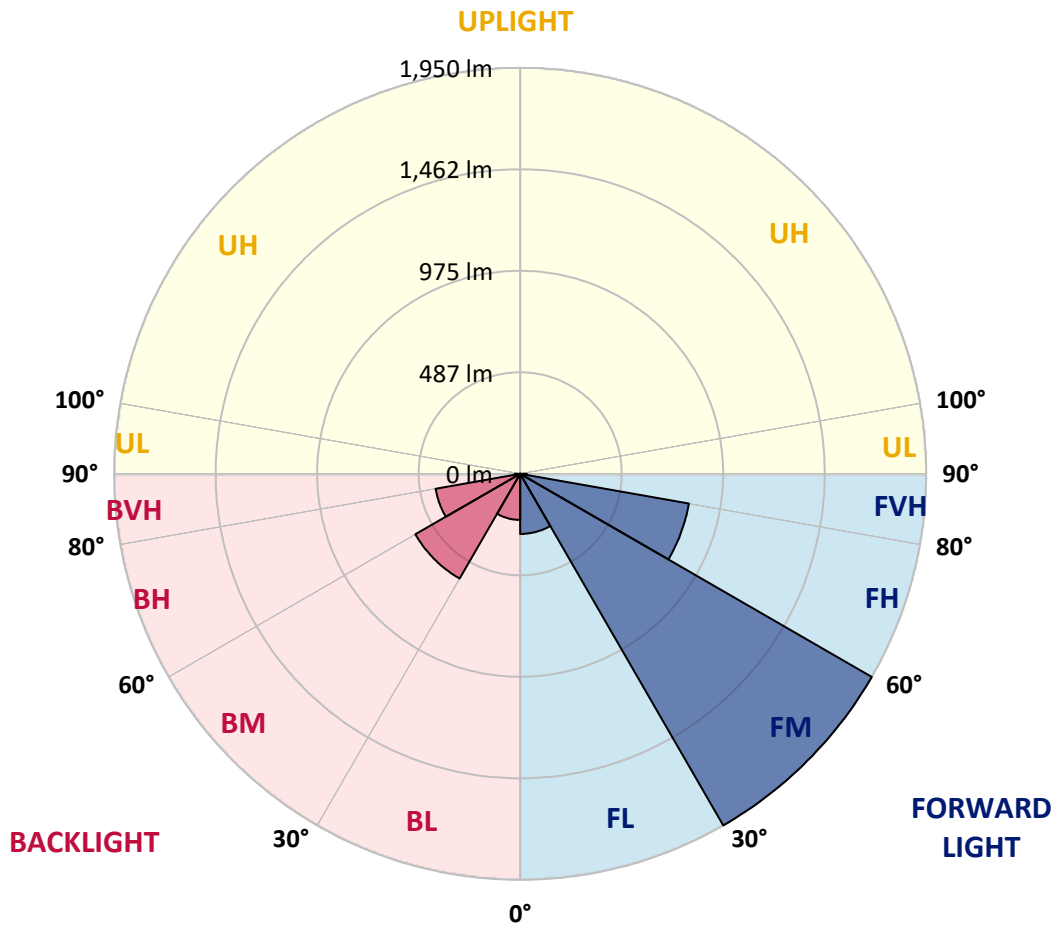
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	288.9	6.7			
FM (30°-60°)	1949.9	45.0			
FH (60°-80°)	822.6	19.0			G1/1800
FVH (80°-90°)	31.9	0.7			G1/100
BL (0°-30°)	221.4	5.1	B1/500		
BM (30°-60°)	581.1	13.4	B1/1000		
BH (60°-80°)	412.5	9.5	B1/500		G1/500
BVH (80°-90°)	25.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5
2.5°	496.6	496.6	496.6	497.8	499.0	500.2	502.6	502.6	502.6	503.8	506.1
5°	487.1	485.9	487.1	488.3	490.7	493.1	497.8	500.2	500.2	504.9	509.7
7.5°	488.3	485.9	485.9	487.1	489.5	491.9	496.6	500.2	501.4	507.3	515.6
10°	500.2	496.6	496.6	497.8	497.8	500.2	503.8	508.5	509.7	515.6	524.0
12.5°	525.1	521.6	520.4	516.8	513.3	515.6	519.2	520.4	521.6	525.1	533.5
15°	577.4	571.5	562.0	554.8	545.3	539.4	538.2	539.4	539.4	540.6	545.3
17.5°	652.3	645.1	630.9	615.4	592.9	573.9	567.9	563.2	563.2	559.6	559.6
20°	743.8	733.1	716.4	693.9	660.6	626.1	605.9	595.2	591.7	585.7	577.4
22.5°	849.5	842.4	821.0	786.5	736.6	690.3	657.0	633.3	633.3	619.0	601.2
25°	974.2	961.2	936.2	895.8	828.1	761.6	716.4	682.0	678.4	655.8	627.3
27.5°	1095.4	1087.1	1056.2	1002.8	922.0	844.7	781.8	741.4	735.4	699.8	655.8
30°	1242.8	1233.3	1186.9	1112.1	1025.3	937.4	863.8	811.5	805.5	756.8	695.0
32.5°	1425.7	1393.6	1336.6	1251.1	1139.4	1040.8	956.4	900.6	893.5	837.6	764.0
35°	1647.9	1620.6	1522.0	1431.7	1298.6	1169.1	1068.1	994.4	984.9	918.4	825.7
37.5°	1804.7	1791.7	1723.9	1652.7	1500.6	1325.9	1202.4	1100.2	1090.7	1002.8	882.8
40°	1903.3	1890.3	1871.3	1851.1	1766.7	1569.5	1363.9	1224.9	1209.5	1126.3	996.8
42.5°	1954.4	1943.7	1947.3	1987.7	2011.5	1980.6	1594.4	1391.3	1380.6	1279.6	1135.8
45°	1924.7	1917.6	1952.1	2059.0	2175.4	2403.5	1890.3	1609.9	1581.4	1461.4	1304.5
47.5°	1782.2	1760.8	1841.6	2023.3	2272.8	2605.5	2246.7	1879.6	1848.7	1676.4	1475.6
50°	1488.7	1482.8	1593.2	1823.7	2234.8	2685.1	2628.1	2198.0	2175.4	1908.1	1665.7
52.5°	1215.4	1213.1	1298.6	1510.1	1992.5	2629.3	2904.9	2577.0	2509.3	2141.0	1872.5
55°	943.4	942.2	1018.2	1176.2	1589.7	2366.7	3035.6	2963.1	2913.2	2395.2	2085.1
57.5°	645.1	636.8	735.4	855.4	1194.0	1874.8	2950.1	3268.5	3237.6	2664.9	2310.9
60°	358.8	370.7	480.0	628.5	854.2	1263.0	2593.6	3400.4	3395.6	2880.0	2495.0
62.5°	254.3	259.0	305.3	446.7	562.0	723.6	2000.8	3263.7	3301.7	2998.8	2599.6
65°	211.5	213.9	236.4	330.3	411.1	418.2	1247.5	2858.6	2908.5	2961.9	2622.1
67.5°	199.6	200.8	212.7	243.6	322.0	303.0	557.2	2182.5	2288.3	2664.9	2474.8
70°	181.8	183.0	200.8	215.0	260.2	238.8	286.3	1449.5	1592.1	2106.5	2133.8
72.5°	155.6	159.2	173.5	202.0	211.5	198.4	221.0	774.6	916.0	1409.1	1647.9
75°	134.3	136.6	147.3	171.1	198.4	158.0	187.7	352.9	413.5	826.9	1043.2
77.5°	108.1	109.3	124.8	140.2	166.3	128.3	146.1	211.5	222.2	404.0	471.7
80°	82.0	82.0	92.7	111.7	123.6	123.6	106.9	147.3	153.3	192.5	186.5
82.5°	63.0	61.8	70.1	78.4	89.1	103.4	80.8	97.4	99.8	116.4	99.8
85°	41.6	41.6	46.3	53.5	59.4	57.0	63.0	57.0	59.4	72.5	54.7
87.5°	17.8	17.8	25.0	23.8	26.1	27.3	30.9	27.3	27.3	33.3	25.0
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°	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5	508.5
2.5°	507.3	508.5	510.9	512.1	515.6	516.8	516.8	519.2	519.2	521.6	521.6
5°	510.9	514.4	518.0	521.6	525.1	526.3	528.7	529.9	529.9	532.3	531.1
7.5°	518.0	521.6	528.7	532.3	537.0	539.4	538.2	539.4	538.2	539.4	539.4
10°	527.5	532.3	540.6	545.3	548.9	550.1	546.5	543.0	538.2	538.2	538.2
12.5°	538.2	541.8	552.5	556.0	558.4	554.8	545.3	538.2	534.6	535.8	534.6
15°	548.9	552.5	560.8	564.3	564.3	553.7	545.3	543.0	541.8	543.0	543.0
17.5°	559.6	563.2	570.3	570.3	566.7	558.4	550.1	541.8	535.8	532.3	532.3
20°	573.9	573.9	576.2	576.2	575.0	562.0	541.8	521.6	509.7	502.6	501.4
22.5°	592.9	588.1	583.4	583.4	588.1	553.7	514.4	483.6	464.5	462.2	457.4
25°	613.1	602.4	590.5	598.8	590.5	532.3	476.4	434.8	412.3	404.0	406.3
27.5°	634.4	617.8	600.0	623.8	578.6	490.7	423.0	376.6	355.2	349.3	349.3
30°	664.2	639.2	613.1	649.9	556.0	443.2	360.0	326.7	314.8	310.1	308.9
32.5°	721.2	683.2	645.1	673.7	531.1	381.4	317.2	297.0	282.8	278.0	281.6
35°	772.3	718.8	693.9	684.3	491.9	331.5	291.1	273.3	261.4	255.4	255.4
37.5°	818.6	767.5	748.5	684.3	440.8	300.6	274.5	260.2	244.7	240.0	240.0
40°	919.6	851.9	818.6	674.8	377.8	285.1	266.1	249.5	236.4	231.7	230.5
42.5°	1058.6	967.1	891.1	653.5	324.4	278.0	261.4	242.4	231.7	228.1	226.9
45°	1205.9	1125.1	960.0	615.4	289.9	270.9	260.2	240.0	226.9	223.4	222.2
47.5°	1384.1	1301.0	1039.6	557.2	266.1	266.1	259.0	236.4	224.6	221.0	221.0
50°	1581.4	1512.5	1140.6	490.7	248.3	262.6	256.6	236.4	223.4	219.8	218.6
52.5°	1783.3	1751.3	1246.3	425.3	230.5	257.8	255.4	236.4	221.0	217.4	217.4
55°	2040.0	2013.8	1368.7	376.6	216.2	248.3	255.4	234.1	217.4	215.0	215.0
57.5°	2291.9	2282.3	1463.7	333.9	205.5	236.4	251.9	230.5	213.9	212.7	212.7
60°	2506.9	2497.4	1504.1	280.4	194.8	224.6	244.7	224.6	207.9	209.1	209.1
62.5°	2640.0	2585.3	1474.4	231.7	184.2	213.9	236.4	217.4	202.0	205.5	204.4
65°	2663.7	2536.6	1359.2	193.7	172.3	202.0	226.9	209.1	193.7	202.0	200.8
67.5°	2489.1	2277.6	1143.0	168.7	160.4	188.9	216.2	197.2	184.2	196.0	192.5
70°	2111.3	1849.9	845.9	149.7	148.5	173.5	202.0	183.0	171.1	177.0	172.3
72.5°	1571.9	1335.4	547.7	135.4	135.4	155.6	181.8	165.1	153.3	154.5	149.7
75°	980.2	821.0	311.3	122.4	122.4	137.8	161.6	144.9	136.6	131.9	137.8
77.5°	445.5	361.2	164.0	109.3	110.5	117.6	139.0	123.6	114.1	106.9	110.5
80°	165.1	147.3	106.9	93.9	96.2	97.4	111.7	98.6	90.3	85.5	83.2
82.5°	85.5	79.6	72.5	74.9	78.4	74.9	86.7	73.7	64.2	60.6	51.1
85°	42.8	41.6	44.0	49.9	54.7	46.3	52.3	47.5	39.2	28.5	28.5
87.5°	16.6	17.8	16.6	22.6	25.0	21.4	23.8	16.6	11.9	5.9	4.8
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)