

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: P573133

Luminaire Tested: **ARCH-S-PA2-40-727-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573133
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-PA2-40-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 5535 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

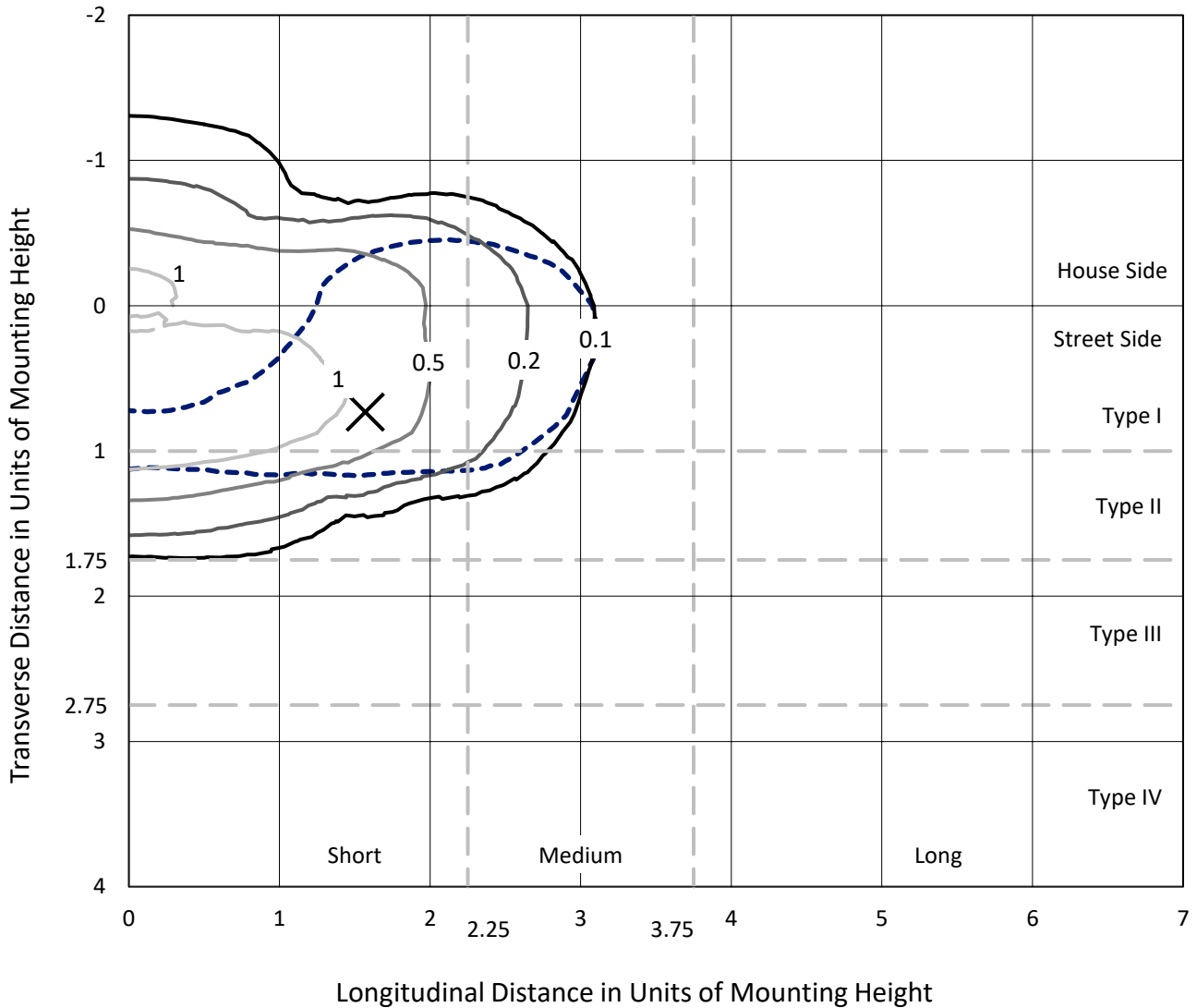
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

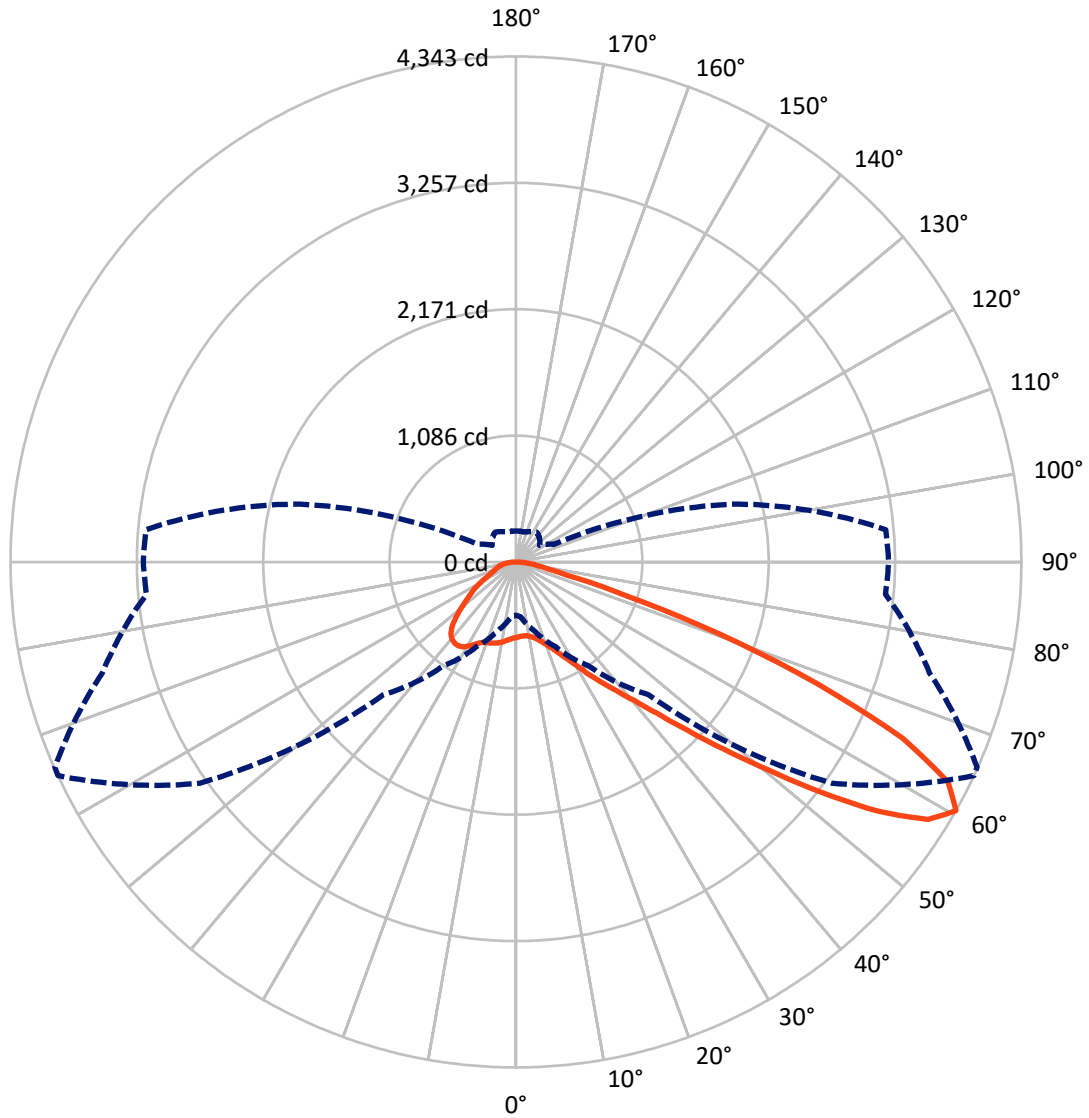
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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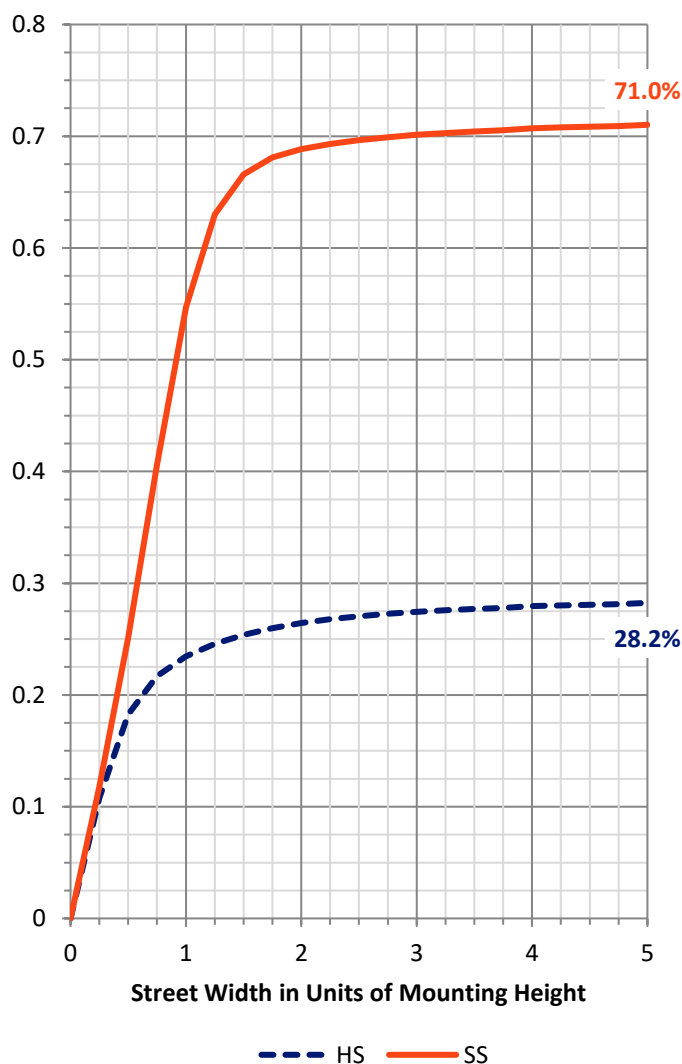
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1584.5	0.0	1584.5
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	3950.5	0.0	3950.5
	% Fixture	71.4	0.0	71.4
Total	Lumens	5535.0	0.0	5535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	1.1
10°-20°	201.9	3.6
20°-30°	387.1	7.0
30°-40°	672.3	12.1
40°-50°	1140.2	20.6
50°-60°	1419.8	25.7
60°-70°	1144.1	20.7
70°-80°	433.2	7.8
80°-90°	73.5	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°	5535.0	100.0
0°-180°	5535.0	100.0

Coefficient of Utilization



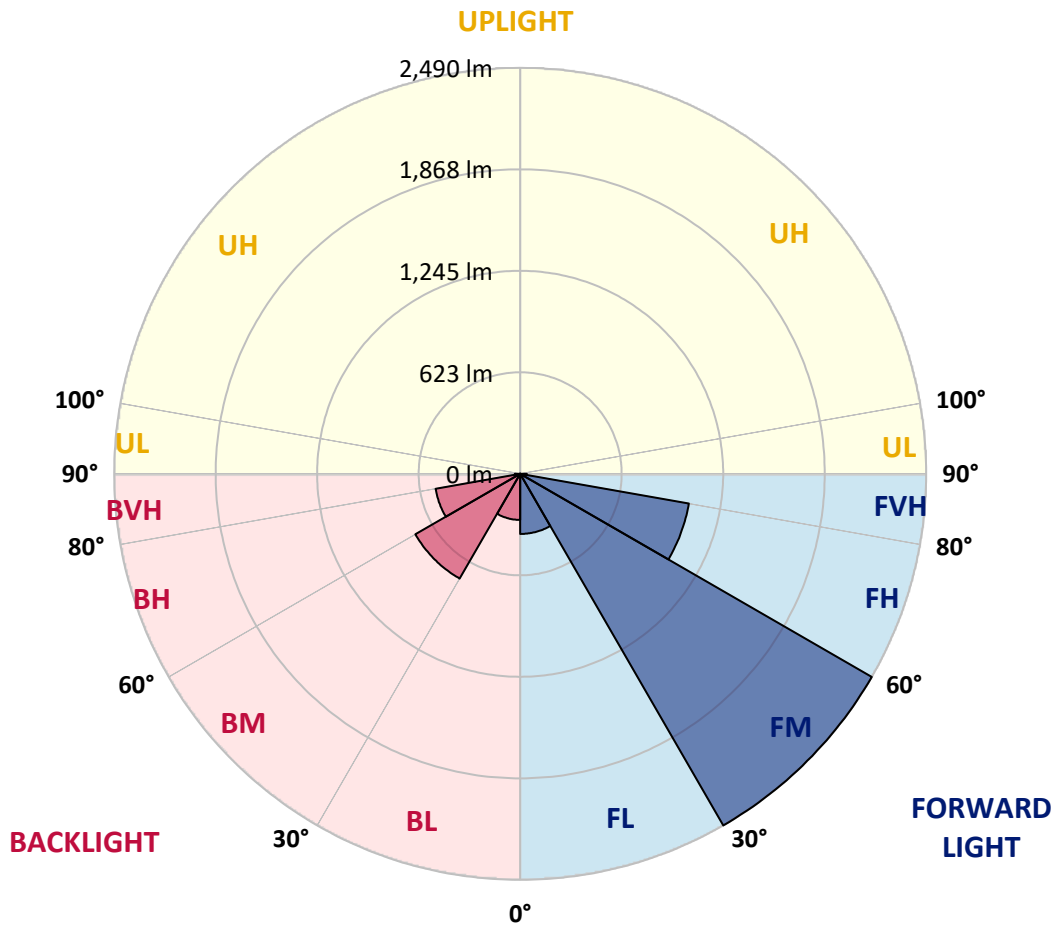
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.0	6.7			
FM (30°-60°)	2490.2	45.0			
FH (60°-80°)	1050.5	19.0			G1/1800
FVH (80°-90°)	40.8	0.7			G1/100
BL (0°-30°)	282.8	5.1	B1/500		
BM (30°-60°)	742.2	13.4	B1/1000		
BH (60°-80°)	526.8	9.5	B2/1000		G2/1000
BVH (80°-90°)	32.7	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°	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4
2.5°	634.2	634.2	634.2	635.8	637.3	638.8	641.8	641.8	641.8	643.4	646.4
5°	622.1	620.6	622.1	623.6	626.7	629.7	635.8	638.8	638.8	644.9	650.9
7.5°	623.6	620.6	620.6	622.1	625.1	628.2	634.2	638.8	640.3	647.9	658.5
10°	638.8	634.2	634.2	635.8	635.8	638.8	643.4	649.4	650.9	658.5	669.1
12.5°	670.7	666.1	664.6	660.0	655.5	658.5	663.1	664.6	666.1	670.7	681.3
15°	737.4	729.8	717.7	708.6	696.5	688.9	687.4	688.9	688.9	690.4	696.5
17.5°	833.0	823.9	805.7	786.0	757.2	732.9	725.3	719.2	719.2	714.7	714.7
20°	949.9	936.2	915.0	886.1	843.6	799.6	773.8	760.2	755.6	748.0	737.4
22.5°	1084.9	1075.8	1048.5	1004.5	940.8	881.6	839.1	808.7	808.7	790.5	767.8
25°	1244.2	1227.5	1195.7	1144.1	1057.6	972.6	915.0	871.0	866.4	837.6	801.2
27.5°	1399.0	1388.4	1348.9	1280.6	1177.5	1078.8	998.4	946.8	939.2	893.7	837.6
30°	1587.1	1575.0	1515.8	1420.2	1309.5	1197.2	1103.1	1036.3	1028.8	966.5	887.6
32.5°	1820.8	1779.8	1707.0	1597.8	1455.1	1329.2	1221.5	1150.1	1141.0	1069.7	975.7
35°	2104.6	2069.7	1943.7	1828.4	1658.5	1493.1	1364.1	1270.0	1257.9	1172.9	1054.6
37.5°	2304.8	2288.2	2201.7	2110.6	1916.4	1693.4	1535.5	1405.1	1392.9	1280.6	1127.4
40°	2430.8	2414.1	2389.8	2364.0	2256.3	2004.4	1741.9	1564.4	1544.7	1438.4	1273.0
42.5°	2496.0	2482.4	2486.9	2538.5	2568.9	2529.4	2036.3	1776.8	1763.2	1634.2	1450.6
45°	2458.1	2449.0	2493.0	2629.6	2778.3	3069.6	2414.1	2056.0	2019.6	1866.3	1666.0
47.5°	2276.0	2248.7	2351.9	2584.0	2902.7	3327.5	2869.3	2400.4	2361.0	2141.0	1884.5
50°	1901.2	1893.6	2034.8	2329.1	2854.1	3429.2	3356.4	2807.1	2778.3	2436.8	2127.3
52.5°	1552.2	1549.2	1658.5	1928.5	2544.6	3357.9	3709.9	3291.1	3204.6	2734.2	2391.3
55°	1204.8	1203.3	1300.4	1502.2	2030.2	3022.5	3876.8	3784.2	3720.5	3059.0	2662.9
57.5°	823.9	813.3	939.2	1092.5	1524.9	2394.4	3767.6	4174.2	4134.8	3403.4	2951.2
60°	458.2	473.4	613.0	802.7	1091.0	1612.9	3312.4	4342.6	4336.6	3678.0	3186.4
62.5°	324.7	330.8	390.0	570.5	717.7	924.1	2555.2	4168.1	4216.7	3829.8	3319.9
65°	270.1	273.1	302.0	421.8	525.0	534.1	1593.2	3650.7	3714.5	3782.7	3348.8
67.5°	254.9	256.4	271.6	311.1	411.2	386.9	711.6	2787.4	2922.4	3403.4	3160.6
70°	232.2	233.7	256.4	274.6	332.3	305.0	365.7	1851.2	2033.2	2690.2	2725.1
72.5°	198.8	203.3	221.5	257.9	270.1	253.4	282.2	989.3	1169.9	1799.6	2104.6
75°	171.5	174.5	188.2	218.5	253.4	201.8	239.7	450.7	528.0	1056.1	1332.2
77.5°	138.1	139.6	159.3	179.0	212.4	163.9	186.6	270.1	283.7	515.9	602.4
80°	104.7	104.7	118.4	142.6	157.8	157.8	136.6	188.2	195.7	245.8	238.2
82.5°	80.4	78.9	89.5	100.1	113.8	132.0	103.2	124.4	127.5	148.7	127.5
85°	53.1	53.1	59.2	68.3	75.9	72.8	80.4	72.8	75.9	92.6	69.8
87.5°	22.8	22.8	31.9	30.3	33.4	34.9	39.5	34.9	34.9	42.5	31.9
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°	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4
2.5°	647.9	649.4	652.5	654.0	658.5	660.0	660.0	663.1	663.1	666.1	666.1
5°	652.5	657.0	661.6	666.1	670.7	672.2	675.2	676.7	676.7	679.8	678.3
7.5°	661.6	666.1	675.2	679.8	685.8	688.9	687.4	688.9	687.4	688.9	688.9
10°	673.7	679.8	690.4	696.5	701.0	702.5	698.0	693.4	687.4	687.4	687.4
12.5°	687.4	691.9	705.6	710.1	713.2	708.6	696.5	687.4	682.8	684.3	682.8
15°	701.0	705.6	716.2	720.7	720.7	707.1	696.5	693.4	691.9	693.4	693.4
17.5°	714.7	719.2	728.3	728.3	723.8	713.2	702.5	691.9	684.3	679.8	679.8
20°	732.9	732.9	735.9	735.9	734.4	717.7	691.9	666.1	650.9	641.8	640.3
22.5°	757.2	751.1	745.0	745.0	751.1	707.1	657.0	617.6	593.3	590.2	584.2
25°	782.9	769.3	754.1	764.7	754.1	679.8	608.5	555.3	526.5	515.9	518.9
27.5°	810.3	789.0	766.3	796.6	738.9	626.7	540.2	481.0	453.7	446.1	446.1
30°	848.2	816.3	782.9	830.0	710.1	566.0	459.8	417.3	402.1	396.0	394.5
32.5°	921.0	872.5	823.9	860.3	678.3	487.1	405.1	379.3	361.1	355.1	359.6
35°	986.3	918.0	886.1	874.0	628.2	423.3	371.7	349.0	333.8	326.2	326.2
37.5°	1045.4	980.2	955.9	874.0	562.9	383.9	350.5	332.3	312.6	306.5	306.5
40°	1174.4	1087.9	1045.4	861.8	482.5	364.2	339.9	318.6	302.0	295.9	294.4
42.5°	1352.0	1235.1	1138.0	834.5	414.2	355.1	333.8	309.5	295.9	291.3	289.8
45°	1540.1	1436.9	1226.0	786.0	370.2	346.0	332.3	306.5	289.8	285.3	283.7
47.5°	1767.7	1661.5	1327.7	711.6	339.9	339.9	330.8	302.0	286.8	282.2	282.2
50°	2019.6	1931.6	1456.6	626.7	317.1	335.3	327.7	302.0	285.3	280.7	279.2
52.5°	2277.5	2236.6	1591.7	543.2	294.4	329.3	326.2	302.0	282.2	277.7	277.7
55°	2605.3	2571.9	1748.0	481.0	276.2	317.1	326.2	298.9	277.7	274.6	274.6
57.5°	2927.0	2914.8	1869.4	426.4	262.5	302.0	321.7	294.4	273.1	271.6	271.6
60°	3201.6	3189.5	1921.0	358.1	248.8	286.8	312.6	286.8	265.5	267.1	267.1
62.5°	3371.5	3301.7	1883.0	295.9	235.2	273.1	302.0	277.7	257.9	262.5	261.0
65°	3401.9	3239.5	1735.8	247.3	220.0	257.9	289.8	267.1	247.3	257.9	256.4
67.5°	3178.8	2908.7	1459.7	215.5	204.8	241.3	276.2	251.9	235.2	250.4	245.8
70°	2696.3	2362.5	1080.3	191.2	189.7	221.5	257.9	233.7	218.5	226.1	220.0
72.5°	2007.4	1705.5	699.5	173.0	173.0	198.8	232.2	210.9	195.7	197.3	191.2
75°	1251.8	1048.5	397.5	156.3	156.3	176.0	206.4	185.1	174.5	168.4	176.0
77.5°	569.0	461.3	209.4	139.6	141.1	150.2	177.5	157.8	145.7	136.6	141.1
80°	210.9	188.2	136.6	119.9	122.9	124.4	142.6	125.9	115.3	109.2	106.2
82.5°	109.2	101.7	92.6	95.6	100.1	95.6	110.8	94.1	81.9	77.4	65.2
85°	54.6	53.1	56.1	63.7	69.8	59.2	66.8	60.7	50.1	36.4	36.4
87.5°	21.2	22.8	21.2	28.8	31.9	27.3	30.3	21.2	15.2	7.6	6.1
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)