

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: P573427

Luminaire Tested: **ARCH-S-PA2-70-827-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-70-827-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6055 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

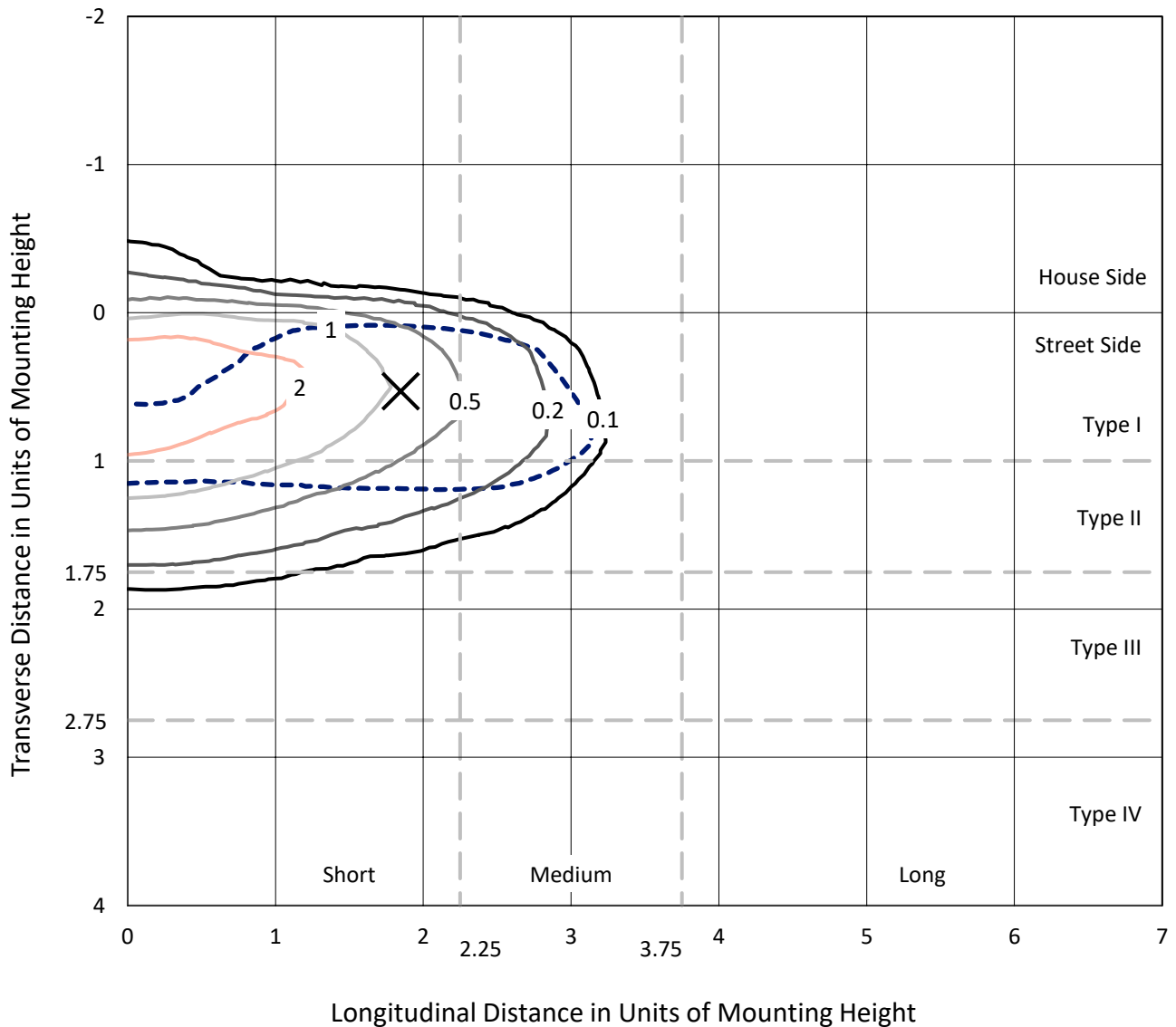
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

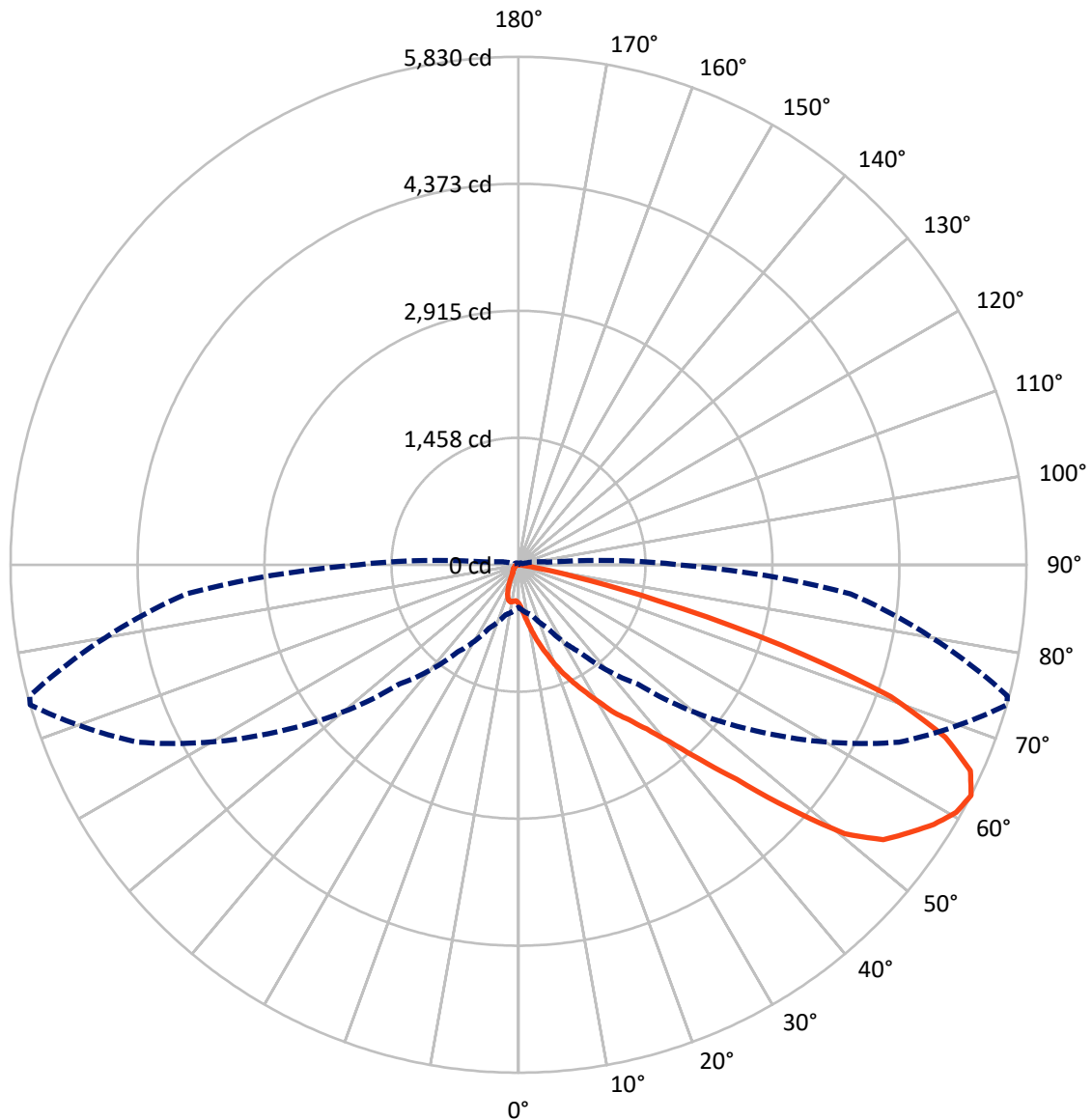
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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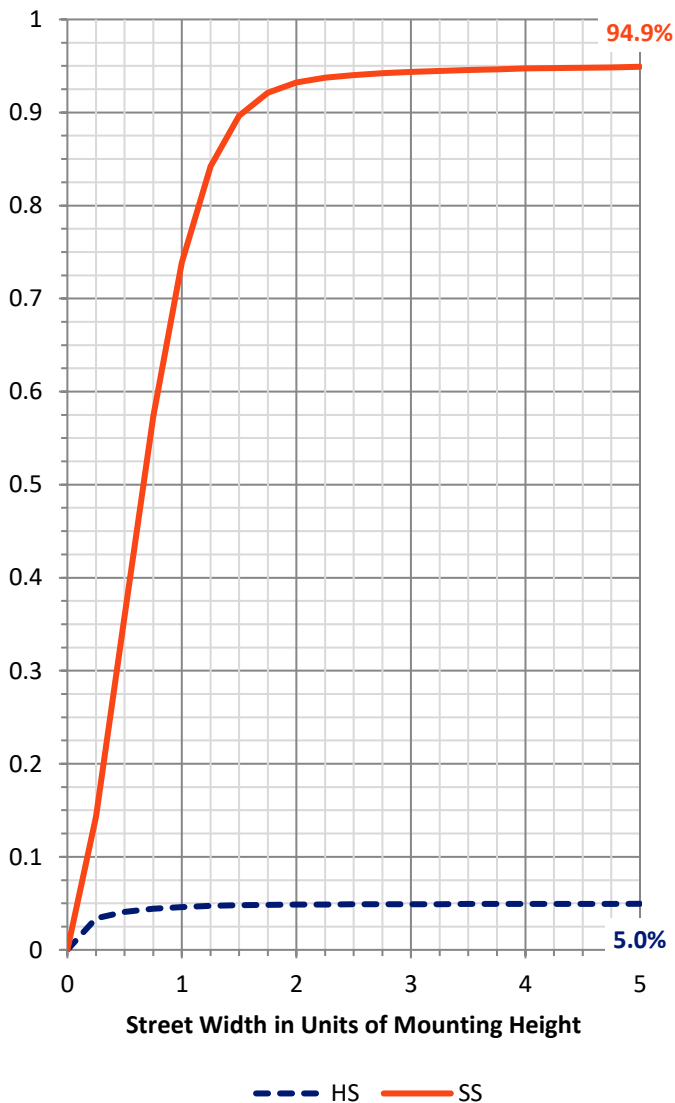
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	302.0	0.0	302.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5753.0	0.0	5753.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	6055.0	0.0	6055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	0.9
10°-20°	232.8	3.8
20°-30°	499.7	8.3
30°-40°	876.4	14.5
40°-50°	1358.6	22.4
50°-60°	1566.3	25.9
60°-70°	1100.3	18.2
70°-80°	342.8	5.7
80°-90°	22.7	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°	6055.0	100.0
0°-180°	6055.0	100.0

Coefficient of Utilization

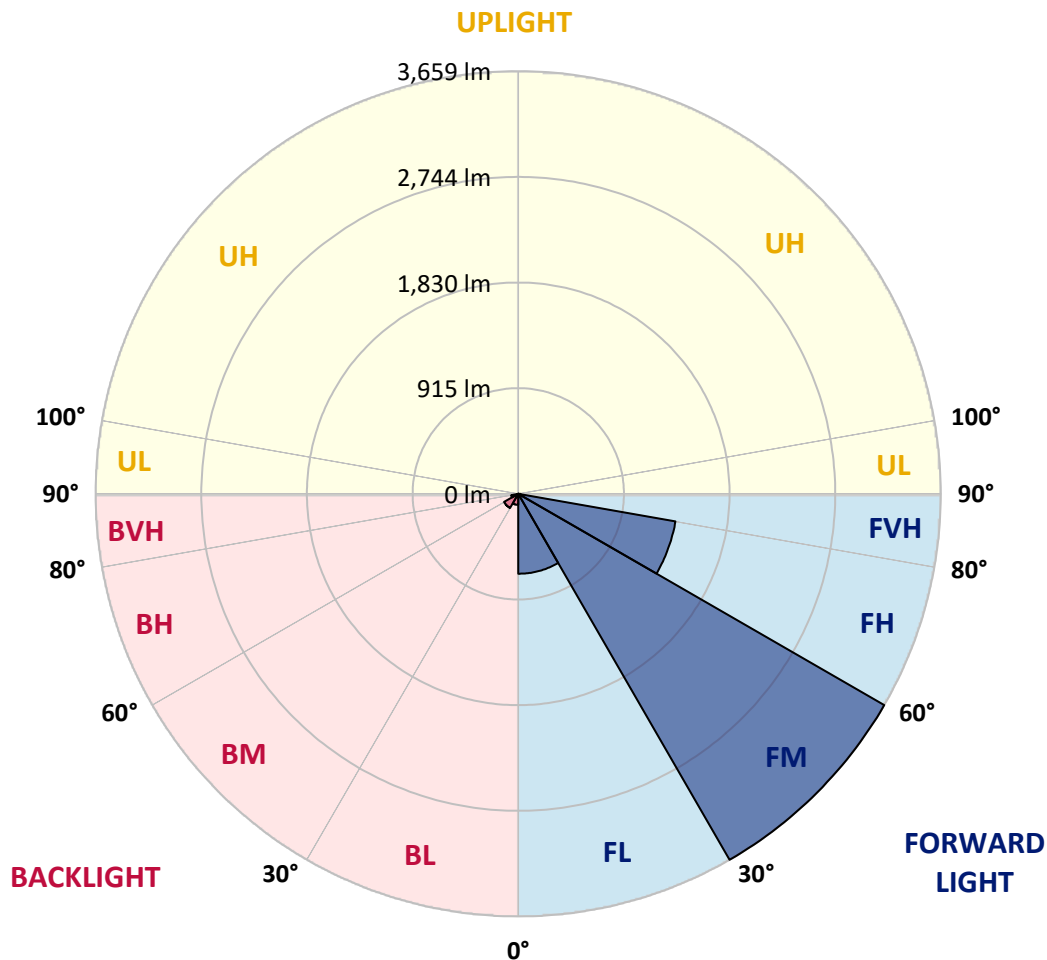


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.1	11.4			
FM (30°-60°)	3659.3	60.4			
FH (60°-80°)	1382.0	22.8			G1/1800
FVH (80°-90°)	19.5	0.3			G1/100
BL (0°-30°)	95.8	1.6	B0/110		
BM (30°-60°)	141.9	2.3	B0/220		
BH (60°-80°)	61.1	1.0	B0/110		G0/110
BVH (80°-90°)	3.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2
2.5°	615.9	605.2	592.4	581.8	560.4	545.5	526.4	505.0	481.6	479.5	460.3
5°	863.0	831.1	831.1	803.4	771.4	713.9	660.6	594.5	545.5	541.3	490.1
7.5°	1116.6	1091.1	1076.1	1033.5	982.4	918.5	833.2	722.4	632.9	618.0	534.9
10°	1353.2	1334.0	1306.3	1272.2	1227.4	1123.0	1016.5	871.6	728.8	718.1	588.2
12.5°	1536.4	1513.0	1500.2	1485.3	1427.8	1344.7	1206.1	1022.9	852.4	829.0	641.4
15°	1675.0	1664.3	1651.5	1651.5	1621.7	1540.7	1397.9	1184.8	971.7	944.0	709.6
17.5°	1785.8	1773.0	1770.8	1783.6	1775.1	1717.6	1583.3	1340.4	1095.3	1074.0	779.9
20°	1909.4	1892.3	1892.3	1903.0	1900.8	1868.9	1751.7	1519.4	1240.2	1201.9	860.9
22.5°	2084.1	2073.4	2064.9	2047.9	2035.1	2005.3	1903.0	1694.1	1378.7	1342.5	944.0
25°	2318.5	2305.7	2267.4	2237.5	2182.1	2137.4	2050.0	1849.7	1519.4	1478.9	1025.0
27.5°	2546.5	2521.0	2484.7	2446.4	2384.6	2307.9	2199.2	1996.7	1666.4	1623.8	1108.1
30°	2787.3	2768.1	2723.4	2661.6	2584.9	2499.6	2369.7	2173.6	1834.8	1787.9	1197.6
32.5°	2979.1	2949.3	2908.8	2849.1	2770.3	2710.6	2570.0	2367.5	2028.7	1966.9	1291.4
35°	3132.5	3109.1	3055.8	2998.3	2938.6	2921.6	2768.1	2525.2	2184.3	2126.7	1391.5
37.5°	3230.6	3207.1	3162.4	3104.8	3081.4	3111.2	3011.1	2740.4	2393.1	2320.6	1506.6
40°	3307.3	3279.6	3243.4	3217.8	3209.3	3292.4	3281.7	3019.6	2668.0	2625.4	1664.3
42.5°	3362.7	3335.0	3311.5	3309.4	3364.8	3526.8	3646.1	3409.6	3051.6	2964.2	1866.7
45°	3292.4	3268.9	3281.7	3356.3	3490.6	3746.3	4087.2	3961.5	3514.0	3452.2	2190.7
47.5°	3096.3	3081.4	3138.9	3275.3	3524.6	3880.5	4513.4	4566.7	4174.6	4080.8	2610.5
50°	2789.5	2787.3	2879.0	3064.4	3418.1	3931.7	4728.7	5148.5	4852.2	4756.4	2951.4
52.5°	2373.9	2365.4	2499.6	2757.5	3166.6	3835.8	4769.1	5380.7	5244.4	5131.4	3166.6
55°	1903.0	1883.8	2043.6	2327.0	2795.9	3556.6	4660.5	5431.9	5431.9	5329.6	3326.5
57.5°	1338.3	1368.1	1500.2	1841.2	2337.7	3138.9	4392.0	5385.0	5621.5	5534.2	3541.7
60°	843.9	856.7	1001.6	1276.5	1773.0	2580.6	3912.5	5182.6	5772.8	5721.7	3714.3
62.5°	485.9	526.4	598.8	807.6	1223.2	1939.2	3320.1	4818.2	5830.4	5809.1	3827.2
65°	296.2	300.5	334.6	456.0	752.2	1323.3	2657.3	4311.0	5700.4	5719.6	3805.9
67.5°	221.6	221.6	232.3	287.7	428.3	841.7	1960.5	3695.1	5284.8	5346.6	3605.6
70°	191.8	191.8	193.9	211.0	264.2	498.7	1295.6	2979.1	4530.5	4524.1	2979.1
72.5°	151.3	157.7	170.5	179.0	200.3	291.9	758.6	2082.0	3147.5	3222.0	1917.9
75°	121.5	123.6	140.6	155.6	168.3	198.2	358.0	1157.1	1651.5	1651.5	843.9
77.5°	93.8	98.0	108.7	123.6	140.6	140.6	149.2	447.5	639.3	618.0	249.3
80°	59.7	61.8	78.8	98.0	117.2	100.2	81.0	149.2	174.7	168.3	68.2
82.5°	36.2	38.4	51.1	78.8	78.8	55.4	51.1	61.8	55.4	51.1	27.7
85°	10.7	12.8	36.2	51.1	44.8	21.3	25.6	27.7	25.6	23.4	14.9
87.5°	2.1	2.1	10.7	12.8	10.7	10.7	8.5	10.7	10.7	10.7	6.4
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°	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.2
2.5°	449.6	441.1	424.1	411.3	400.6	390.0	381.4	379.3	375.1	375.1	372.9
5°	468.8	449.6	417.7	396.4	379.3	364.4	351.6	338.8	334.6	330.3	332.4
7.5°	498.7	468.8	424.1	392.1	362.3	328.2	300.5	277.0	260.0	255.7	249.3
10°	537.0	492.3	434.7	383.6	328.2	268.5	230.1	206.7	198.2	187.5	189.7
12.5°	575.4	520.0	443.2	360.1	270.6	211.0	179.0	164.1	157.7	155.6	157.7
15°	620.1	549.8	439.0	317.5	217.4	170.5	151.3	144.9	140.6	140.6	138.5
17.5°	664.9	575.4	424.1	262.1	174.7	144.9	136.4	130.0	125.7	123.6	123.6
20°	713.9	598.8	390.0	208.8	144.9	132.1	123.6	115.1	110.8	110.8	110.8
22.5°	765.0	615.9	345.2	166.2	130.0	117.2	108.7	102.3	98.0	98.0	98.0
25°	809.8	624.4	291.9	138.5	119.3	106.5	98.0	91.6	89.5	87.4	87.4
27.5°	852.4	622.2	236.5	121.5	106.5	95.9	87.4	83.1	78.8	78.8	78.8
30°	895.0	609.5	187.5	110.8	98.0	85.2	78.8	74.6	72.5	70.3	70.3
32.5°	931.2	588.2	147.0	102.3	89.5	76.7	70.3	66.1	66.1	63.9	63.9
35°	967.5	556.2	123.6	95.9	81.0	70.3	63.9	61.8	59.7	59.7	59.7
37.5°	1005.8	515.7	108.7	87.4	72.5	63.9	59.7	57.5	55.4	53.3	53.3
40°	1052.7	475.2	102.3	81.0	66.1	57.5	53.3	51.1	49.0	49.0	49.0
42.5°	1127.3	441.1	95.9	72.5	59.7	53.3	49.0	44.8	44.8	42.6	42.6
45°	1267.9	428.3	89.5	66.1	55.4	46.9	44.8	40.5	38.4	38.4	38.4
47.5°	1451.2	430.5	83.1	59.7	51.1	42.6	40.5	38.4	34.1	34.1	34.1
50°	1602.5	419.8	76.7	55.4	44.8	40.5	36.2	34.1	32.0	32.0	32.0
52.5°	1662.2	400.6	70.3	51.1	42.6	36.2	34.1	32.0	29.8	29.8	29.8
55°	1721.8	392.1	63.9	44.8	38.4	36.2	32.0	29.8	27.7	25.6	25.6
57.5°	1830.5	396.4	57.5	42.6	36.2	34.1	29.8	25.6	21.3	19.2	19.2
60°	1888.1	381.4	53.3	38.4	34.1	32.0	25.6	19.2	14.9	12.8	12.8
62.5°	1839.0	338.8	49.0	36.2	32.0	27.7	19.2	14.9	10.7	6.4	6.4
65°	1702.7	279.2	44.8	34.1	27.7	21.3	17.0	10.7	6.4	4.3	4.3
67.5°	1530.0	219.5	40.5	32.0	25.6	19.2	14.9	8.5	4.3	2.1	2.1
70°	1236.0	157.7	38.4	29.8	23.4	17.0	12.8	8.5	4.3	2.1	2.1
72.5°	797.0	102.3	34.1	27.7	21.3	17.0	10.7	6.4	4.3	2.1	2.1
75°	368.7	68.2	32.0	25.6	21.3	14.9	10.7	8.5	4.3	2.1	2.1
77.5°	108.7	49.0	29.8	23.4	19.2	14.9	10.7	8.5	4.3	2.1	2.1
80°	44.8	34.1	23.4	21.3	19.2	14.9	10.7	8.5	4.3	2.1	2.1
82.5°	21.3	14.9	10.7	8.5	10.7	10.7	8.5	8.5	4.3	2.1	2.1
85°	10.7	6.4	4.3	4.3	4.3	2.1	2.1	4.3	4.3	2.1	2.1
87.5°	6.4	4.3	4.3	4.3	2.1	2.1	2.1	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)