

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: P573355

Luminaire Tested: **ARCH-S-PA2-60-830-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573355
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-PA2-60-830-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 625mA 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: 5784 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

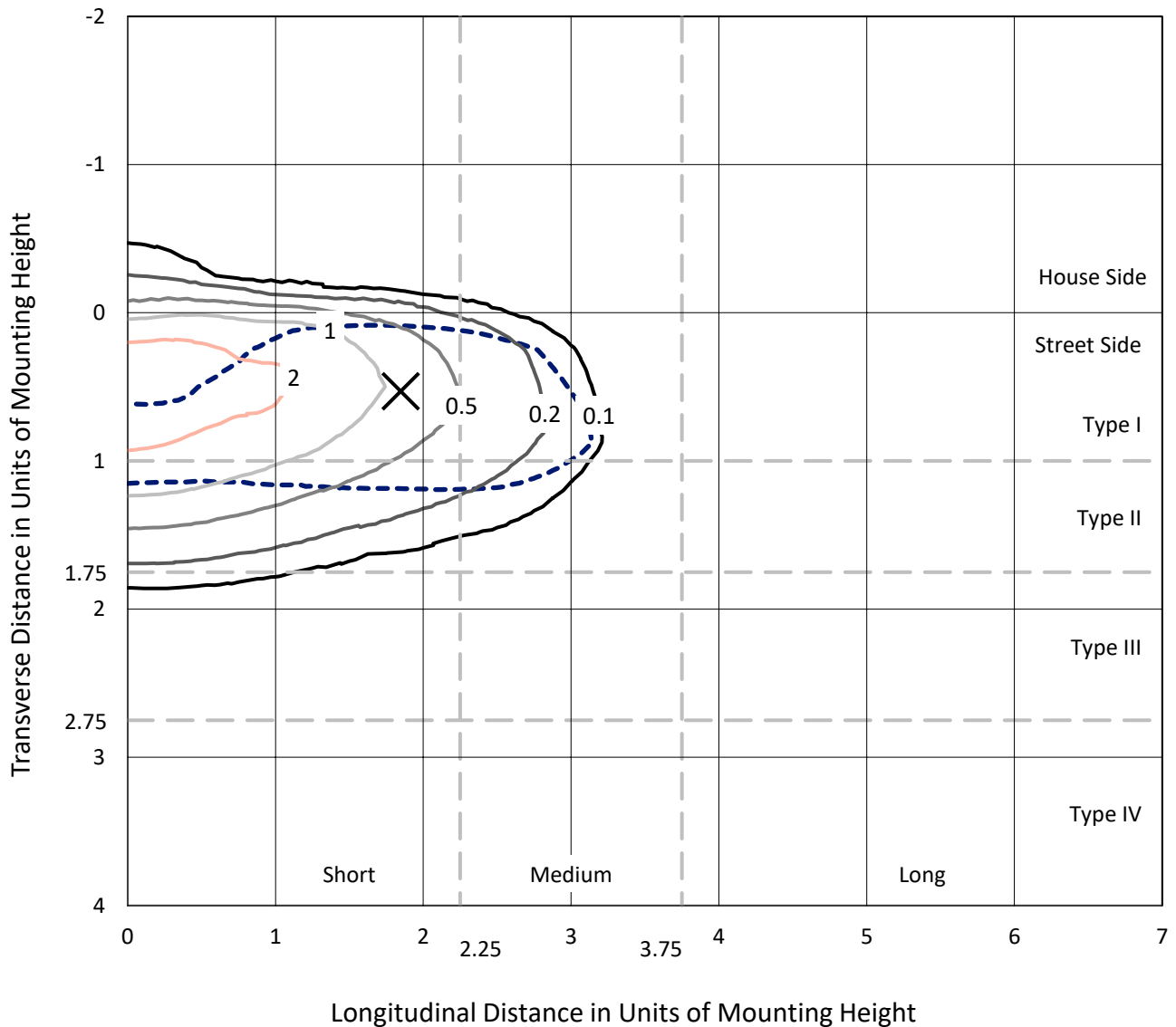
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

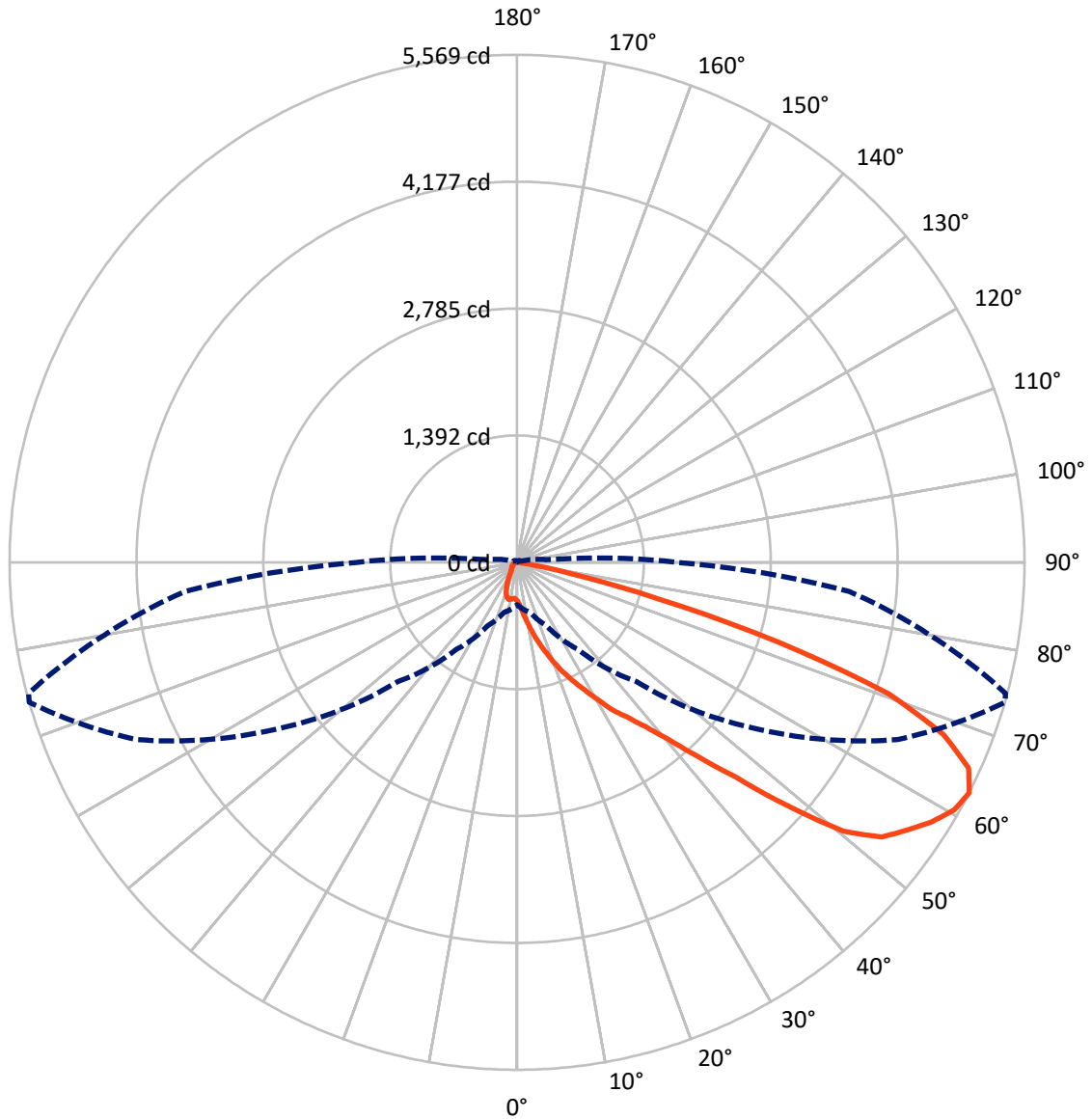
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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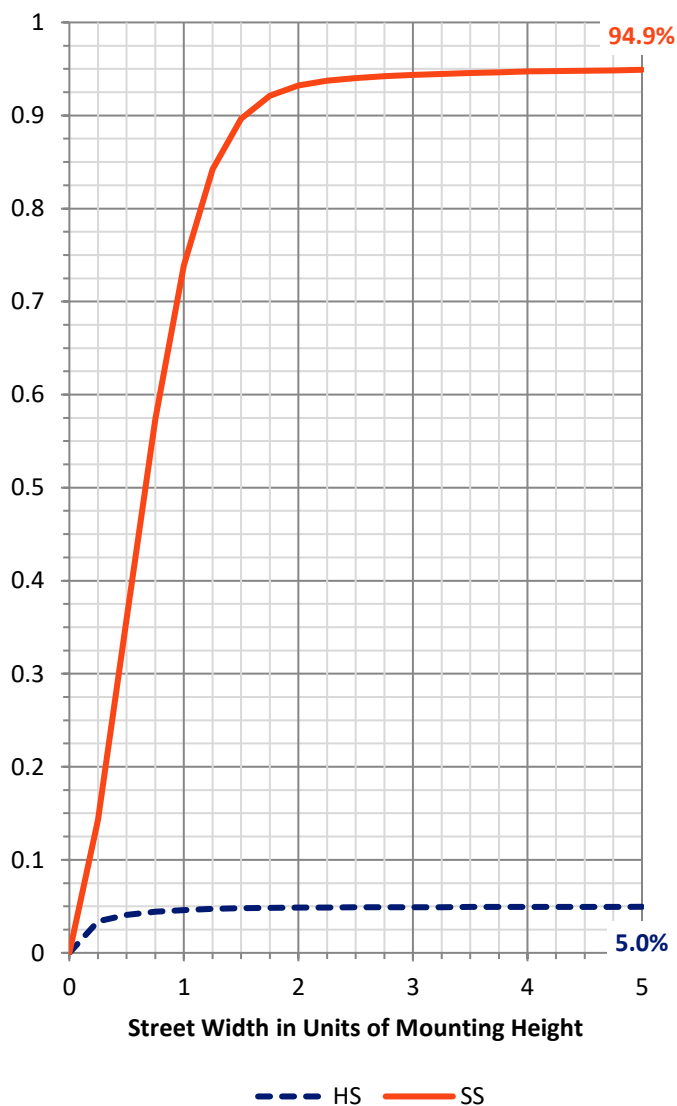
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	288.5	0.0	288.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5495.5	0.0	5495.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	5784.0	0.0	5784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	0.9
10°-20°	222.4	3.8
20°-30°	477.3	8.3
30°-40°	837.2	14.5
40°-50°	1297.8	22.4
50°-60°	1496.2	25.9
60°-70°	1051.1	18.2
70°-80°	327.5	5.7
80°-90°	21.6	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°	5784.0	100.0
0°-180°	5784.0	100.0

Coefficient of Utilization



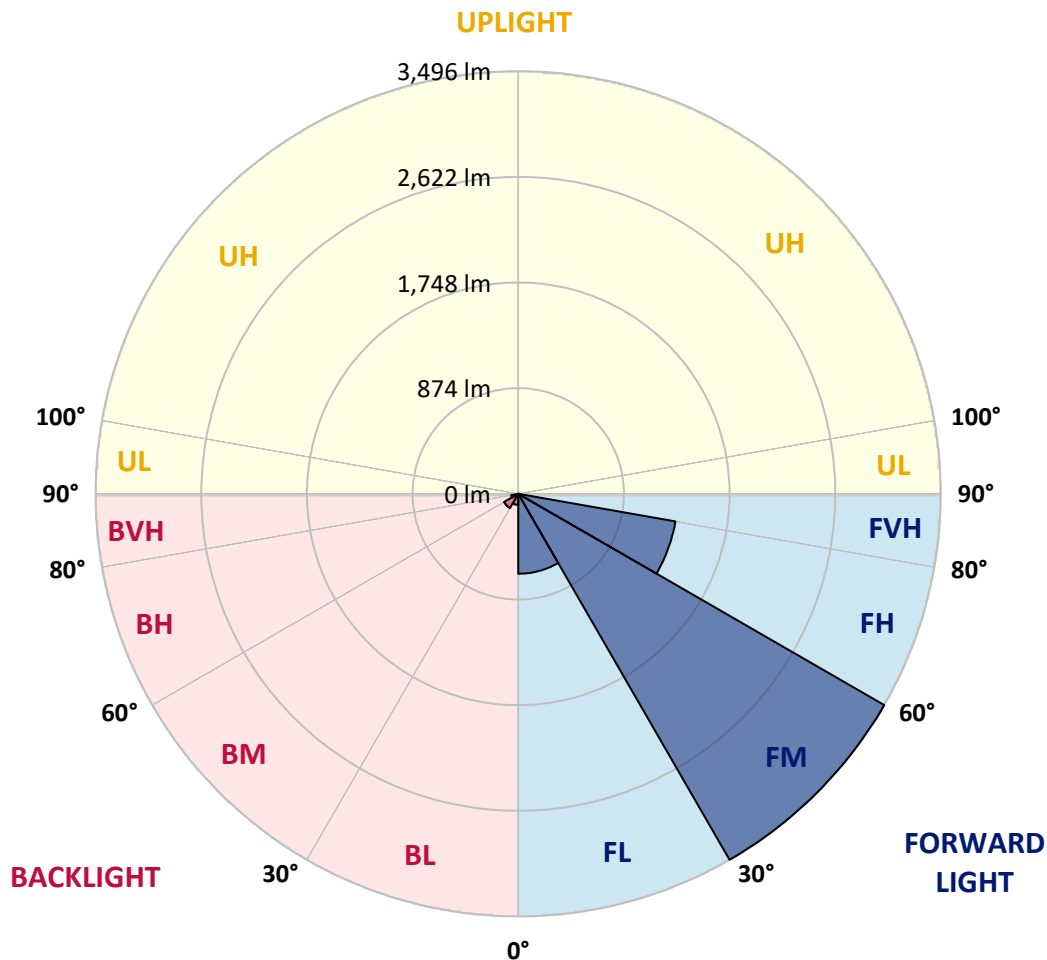
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.1	11.4			
FM (30°-60°)	3495.5	60.4			
FH (60°-80°)	1320.2	22.8			G1/1800
FVH (80°-90°)	18.7	0.3			G1/100
BL (0°-30°)	91.6	1.6	B0/110		
BM (30°-60°)	135.6	2.3	B0/220		
BH (60°-80°)	58.4	1.0	B0/110		G0/110
BVH (80°-90°)	3.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4
2.5°	588.3	578.1	565.9	555.7	535.4	521.1	502.8	482.4	460.0	458.0	439.7
5°	824.4	793.9	793.9	767.4	736.9	681.9	631.0	567.9	521.1	517.0	468.2
7.5°	1066.7	1042.2	1028.0	987.3	938.4	877.3	795.9	690.1	604.6	590.3	510.9
10°	1292.6	1274.3	1247.8	1215.3	1172.5	1072.8	971.0	832.6	696.2	686.0	561.8
12.5°	1467.7	1445.3	1433.1	1418.8	1363.9	1284.5	1152.2	977.1	814.2	791.9	612.7
15°	1600.0	1589.8	1577.6	1577.6	1549.1	1471.7	1335.4	1131.8	928.2	901.8	677.9
17.5°	1705.8	1693.6	1691.6	1703.8	1695.7	1640.7	1512.5	1280.4	1046.3	1025.9	745.0
20°	1823.9	1807.6	1807.6	1817.8	1815.8	1785.2	1673.3	1451.4	1184.7	1148.1	822.4
22.5°	1990.8	1980.6	1972.5	1956.2	1944.0	1915.5	1817.8	1618.3	1317.0	1282.4	901.8
25°	2214.7	2202.5	2165.9	2137.4	2084.5	2041.7	1958.3	1766.9	1451.4	1412.7	979.1
27.5°	2432.6	2408.1	2373.5	2336.9	2277.8	2204.6	2100.7	1907.4	1591.8	1551.1	1058.5
30°	2662.6	2644.3	2601.5	2542.5	2469.2	2387.8	2263.6	2076.3	1752.7	1707.9	1144.0
32.5°	2845.8	2817.3	2778.6	2721.6	2646.3	2589.3	2454.9	2261.6	1937.9	1878.9	1233.6
35°	2992.3	2970.0	2919.1	2864.1	2807.1	2790.8	2644.3	2412.2	2086.5	2031.5	1329.3
37.5°	3086.0	3063.6	3020.8	2965.9	2943.5	2972.0	2876.3	2617.8	2286.0	2216.8	1439.2
40°	3159.3	3132.8	3098.2	3073.8	3065.6	3145.0	3134.8	2884.5	2548.6	2507.9	1589.8
42.5°	3212.2	3185.7	3163.3	3161.3	3214.2	3368.9	3482.9	3257.0	2915.0	2831.5	1783.2
45°	3145.0	3122.6	3134.8	3206.1	3334.3	3578.6	3904.3	3784.2	3356.7	3297.7	2092.6
47.5°	2957.7	2943.5	2998.5	3128.7	3366.9	3706.8	4311.4	4362.3	3987.8	3898.2	2493.6
50°	2664.6	2662.6	2750.1	2927.2	3265.1	3755.7	4517.0	4918.0	4635.1	4543.5	2819.3
52.5°	2267.7	2259.5	2387.8	2634.1	3024.9	3664.1	4555.7	5139.9	5009.6	4901.7	3024.9
55°	1817.8	1799.5	1952.1	2222.9	2670.7	3397.4	4451.9	5188.8	5188.8	5091.1	3177.6
57.5°	1278.4	1306.9	1433.1	1758.8	2233.1	2998.5	4195.4	5144.0	5369.9	5286.5	3383.2
60°	806.1	818.3	956.7	1219.3	1693.6	2465.1	3737.4	4950.6	5514.5	5465.6	3548.1
62.5°	464.1	502.8	572.0	771.5	1168.4	1852.4	3171.5	4602.5	5569.4	5549.1	3656.0
65°	282.9	287.0	319.6	435.6	718.6	1264.1	2538.4	4118.0	5445.3	5463.6	3635.6
67.5°	211.7	211.7	221.9	274.8	409.2	804.1	1872.8	3529.7	5048.3	5107.3	3444.2
70°	183.2	183.2	185.2	201.5	252.4	476.3	1237.6	2845.8	4327.7	4321.6	2845.8
72.5°	144.5	150.6	162.8	171.0	191.3	278.9	724.7	1988.8	3006.6	3077.8	1832.0
75°	116.0	118.1	134.4	148.6	160.8	189.3	342.0	1105.3	1577.6	1577.6	806.1
77.5°	89.6	93.6	103.8	118.1	134.4	134.4	142.5	427.5	610.7	590.3	238.2
80°	57.0	59.0	75.3	93.6	112.0	95.7	77.4	142.5	166.9	160.8	65.1
82.5°	34.6	36.6	48.9	75.3	75.3	52.9	48.9	59.0	52.9	48.9	26.5
85°	10.2	12.2	34.6	48.9	42.7	20.4	24.4	26.5	24.4	22.4	14.2
87.5°	2.0	2.0	10.2	12.2	10.2	10.2	8.1	10.2	10.2	10.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4
2.5°	429.5	421.4	405.1	392.9	382.7	372.5	364.4	362.3	358.3	358.3	356.2
5°	447.8	429.5	399.0	378.6	362.3	348.1	335.9	323.7	319.6	315.5	317.6
7.5°	476.3	447.8	405.1	374.6	346.1	313.5	287.0	264.6	248.3	244.3	238.2
10°	513.0	470.2	415.3	366.4	313.5	256.5	219.8	197.5	189.3	179.1	181.2
12.5°	549.6	496.7	423.4	344.0	258.5	201.5	171.0	156.7	150.6	148.6	150.6
15°	592.4	525.2	419.3	303.3	207.6	162.8	144.5	138.4	134.4	134.4	132.3
17.5°	635.1	549.6	405.1	250.4	166.9	138.4	130.3	124.2	120.1	118.1	118.1
20°	681.9	572.0	372.5	199.5	138.4	126.2	118.1	109.9	105.9	105.9	105.9
22.5°	730.8	588.3	329.8	158.8	124.2	112.0	103.8	97.7	93.6	93.6	93.6
25°	773.5	596.4	278.9	132.3	114.0	101.8	93.6	87.5	85.5	83.5	83.5
27.5°	814.2	594.4	226.0	116.0	101.8	91.6	83.5	79.4	75.3	75.3	75.3
30°	855.0	582.2	179.1	105.9	93.6	81.4	75.3	71.2	69.2	67.2	67.2
32.5°	889.6	561.8	140.5	97.7	85.5	73.3	67.2	63.1	63.1	61.1	61.1
35°	924.2	531.3	118.1	91.6	77.4	67.2	61.1	59.0	57.0	57.0	57.0
37.5°	960.8	492.6	103.8	83.5	69.2	61.1	57.0	55.0	52.9	50.9	50.9
40°	1005.6	453.9	97.7	77.4	63.1	55.0	50.9	48.9	46.8	46.8	46.8
42.5°	1076.8	421.4	91.6	69.2	57.0	50.9	46.8	42.7	42.7	40.7	40.7
45°	1211.2	409.2	85.5	63.1	52.9	44.8	42.7	38.7	36.6	36.6	36.6
47.5°	1386.2	411.2	79.4	57.0	48.9	40.7	38.7	36.6	32.6	32.6	32.6
50°	1530.8	401.0	73.3	52.9	42.7	38.7	34.6	32.6	30.5	30.5	30.5
52.5°	1587.8	382.7	67.2	48.9	40.7	34.6	32.6	30.5	28.5	28.5	28.5
55°	1644.8	374.6	61.1	42.7	36.6	34.6	30.5	28.5	26.5	24.4	24.4
57.5°	1748.6	378.6	55.0	40.7	34.6	32.6	28.5	24.4	20.4	18.3	18.3
60°	1803.5	364.4	50.9	36.6	32.6	30.5	24.4	18.3	14.2	12.2	12.2
62.5°	1756.7	323.7	46.8	34.6	30.5	26.5	18.3	14.2	10.2	6.1	6.1
65°	1626.5	266.7	42.7	32.6	26.5	20.4	16.3	10.2	6.1	4.1	4.1
67.5°	1461.6	209.7	38.7	30.5	24.4	18.3	14.2	8.1	4.1	2.0	2.0
70°	1180.7	150.6	36.6	28.5	22.4	16.3	12.2	8.1	4.1	2.0	2.0
72.5°	761.3	97.7	32.6	26.5	20.4	16.3	10.2	6.1	4.1	2.0	2.0
75°	352.2	65.1	30.5	24.4	20.4	14.2	10.2	8.1	4.1	2.0	2.0
77.5°	103.8	46.8	28.5	22.4	18.3	14.2	10.2	8.1	4.1	2.0	2.0
80°	42.7	32.6	22.4	20.4	18.3	14.2	10.2	8.1	4.1	2.0	2.0
82.5°	20.4	14.2	10.2	8.1	10.2	10.2	8.1	8.1	4.1	2.0	2.0
85°	10.2	6.1	4.1	4.1	4.1	2.0	2.0	4.1	4.1	2.0	2.0
87.5°	6.1	4.1	4.1	4.1	2.0	2.0	2.0	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)