

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: P400060

Luminaire Tested: **ARCH-L-PA3-230-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-230-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19376 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

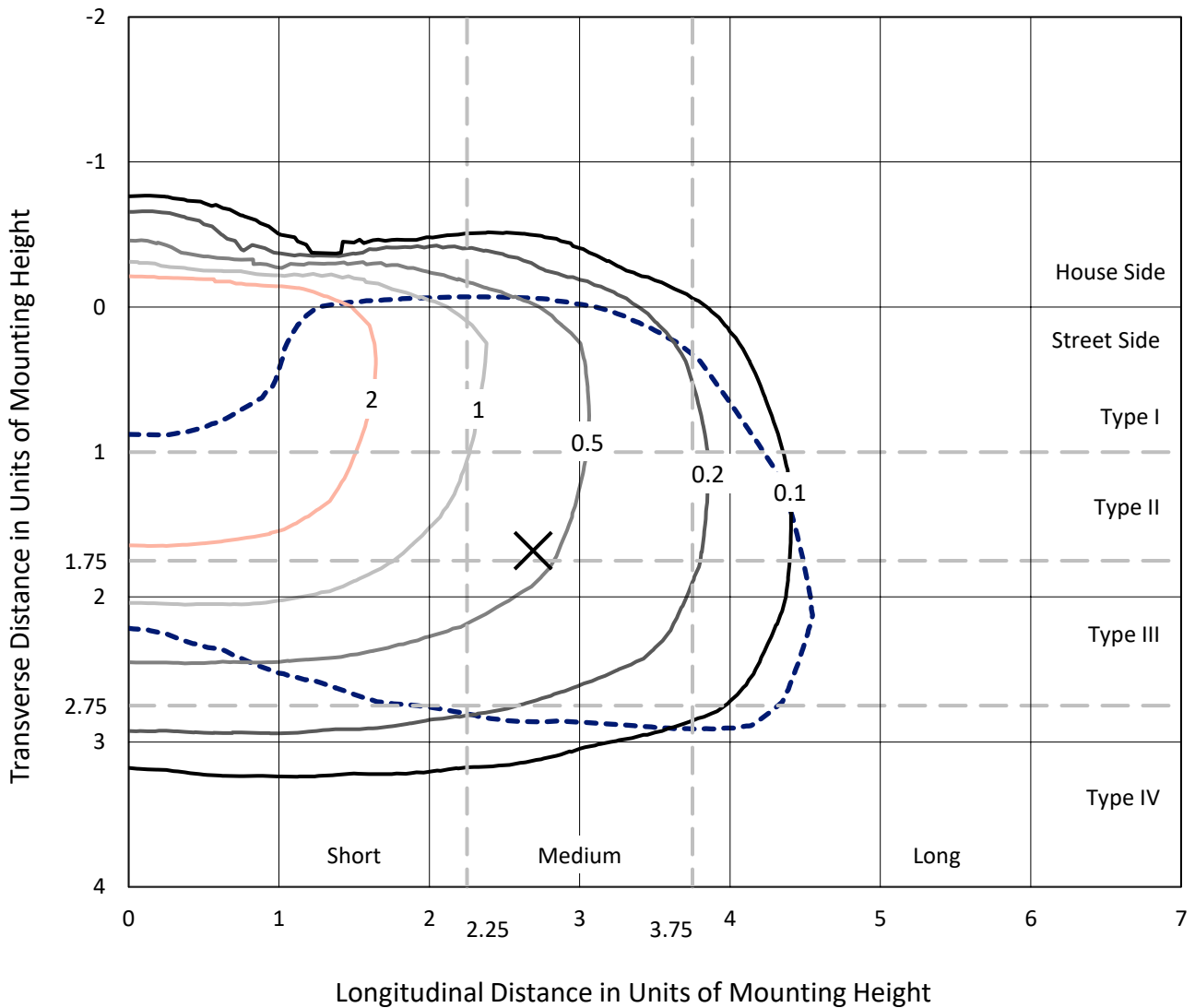
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400060
 CATALOG NUMBER: ARCH-L-PA3-230-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

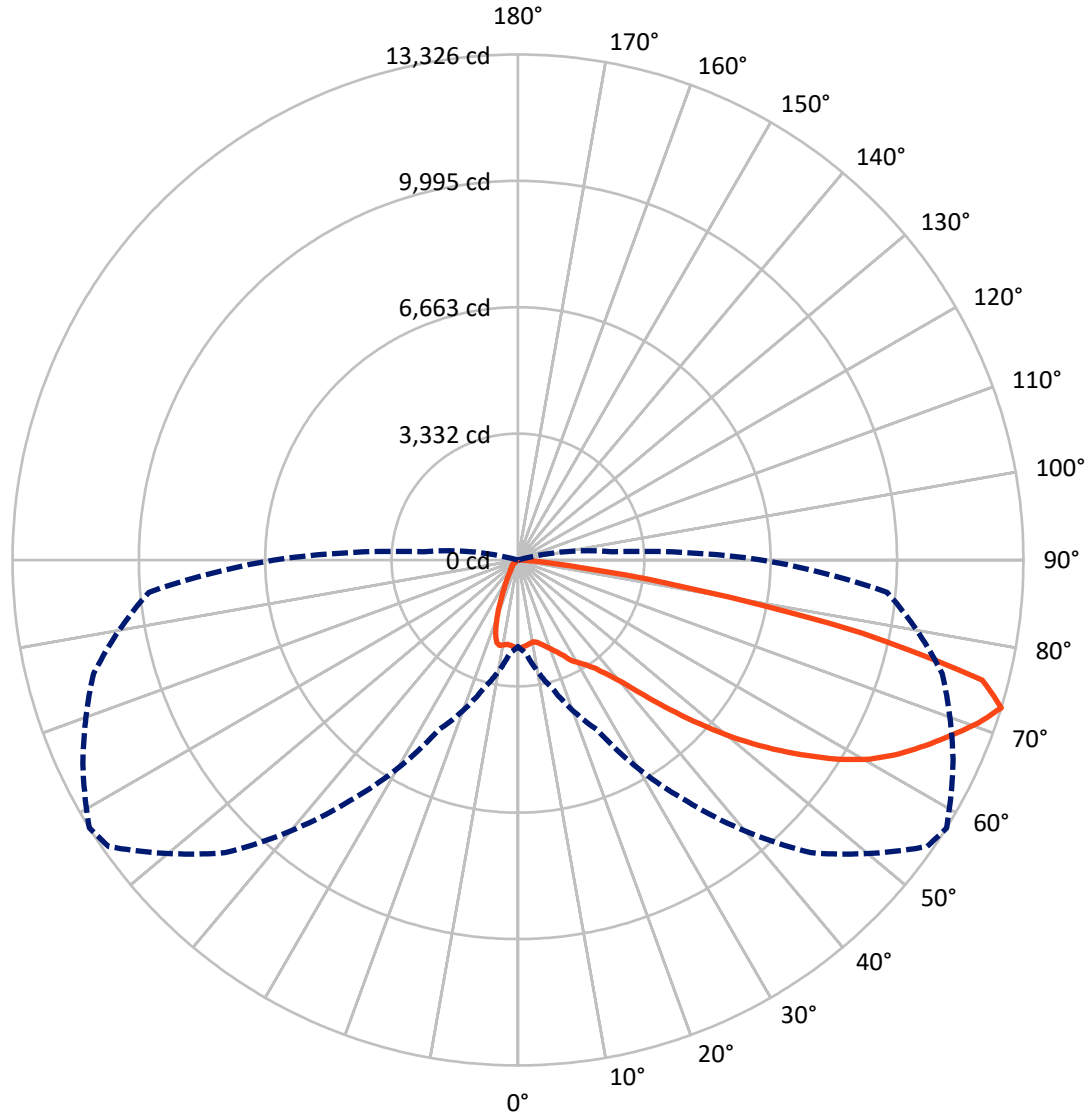
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400060
CATALOG NUMBER: ARCH-L-PA3-230-727-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P400060
 CATALOG NUMBER: ARCH-L-PA3-230-727-U-T3-HSS

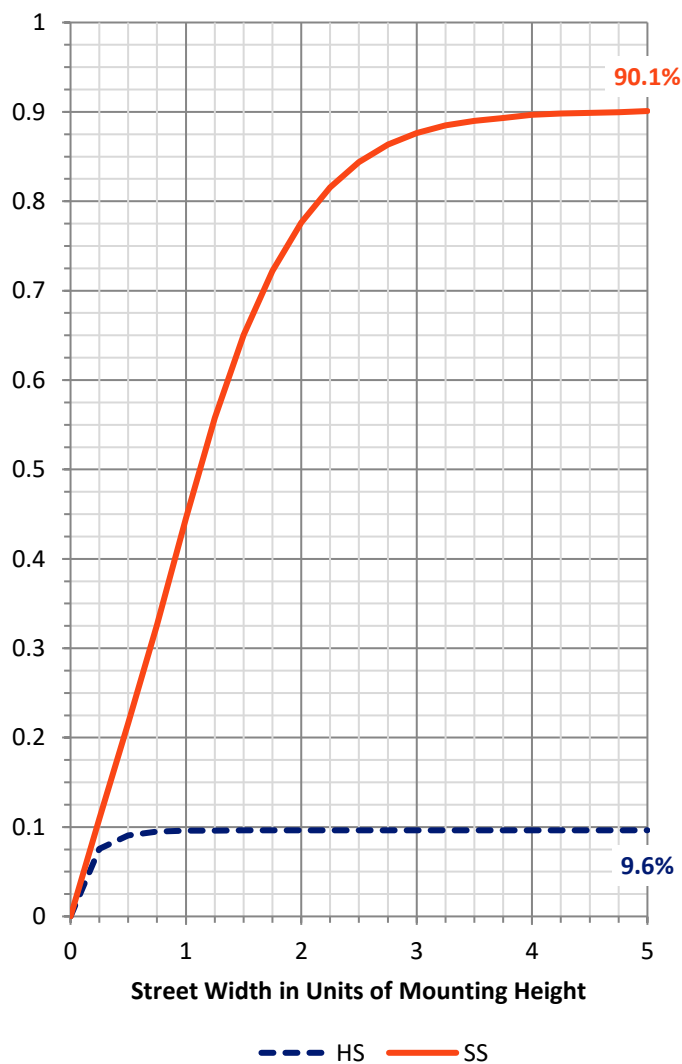
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1884.2	0.0	1884.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	17491.8	0.0	17491.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	19376.0	0.0	19376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	1.1
10°-20°	555.7	2.9
20°-30°	873.1	4.5
30°-40°	1505.7	7.8
40°-50°	2864.6	14.8
50°-60°	4536.7	23.4
60°-70°	5293.8	27.3
70°-80°	3315.5	17.1
80°-90°	217.6	1.1
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°	19376.0	100.0
0°-180°	19376.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400060

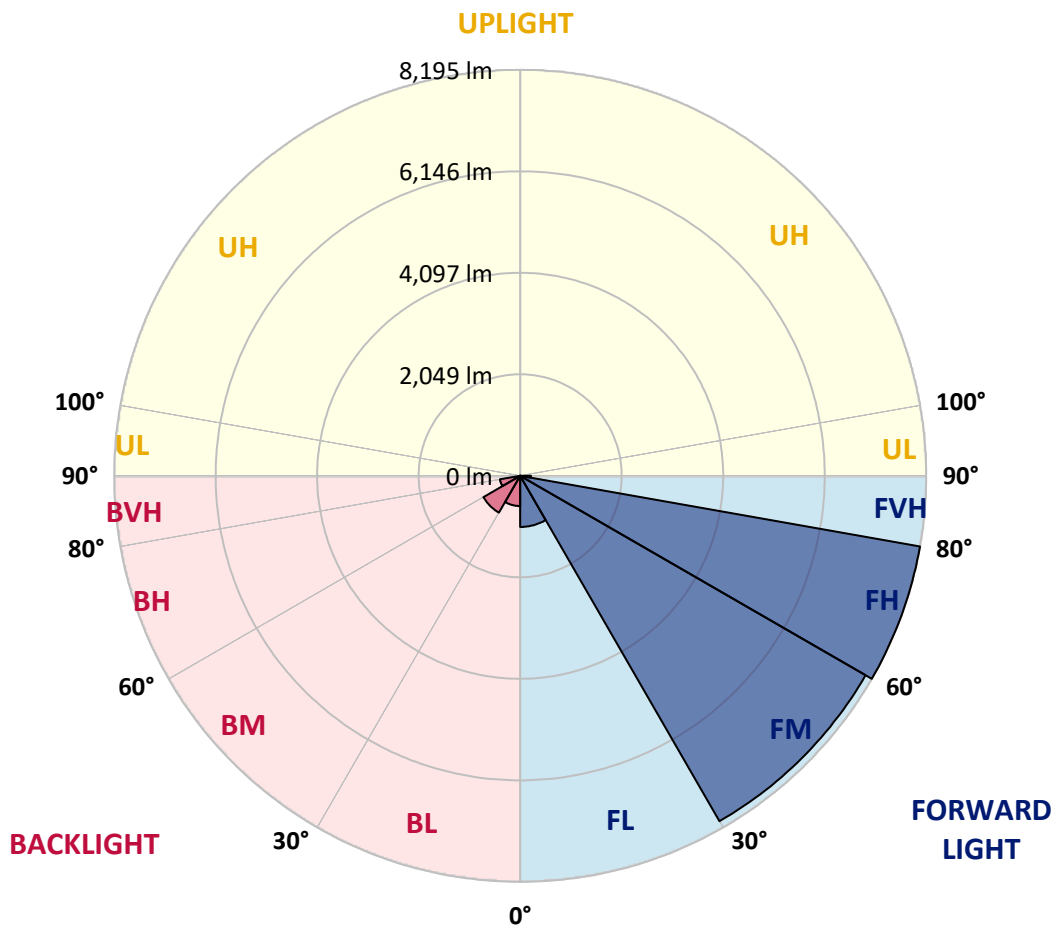
CATALOG NUMBER: ARCH-L-PA3-230-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1032.0	5.3			
FM (30°-60°)	8049.6	41.5			
FH (60°-80°)	8194.7	42.3			G4/12000
FVH (80°-90°)	215.5	1.1			G2/225
BL (0°-30°)	610.2	3.1	B2/1000		
BM (30°-60°)	857.3	4.4	B1/1000		
BH (60°-80°)	414.6	2.1	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium





REPORT NUMBER: P400060

CATALOG NUMBER: ARCH-L-PA3-230-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0
2.5°	2314.6	2304.2	2300.7	2297.3	2300.7	2304.2	2293.8	2304.2	2297.3	2300.7	2307.7
5°	2231.4	2221.1	2217.6	2221.1	2231.4	2248.8	2255.7	2266.1	2266.1	2276.5	2280.0
7.5°	2137.9	2131.0	2127.5	2134.4	2155.2	2193.3	2214.1	2228.0	2241.8	2262.6	2283.4
10°	2085.9	2082.5	2079.0	2089.4	2110.2	2144.8	2172.5	2193.3	2245.3	2304.2	2342.3
12.5°	2051.3	2051.3	2058.2	2079.0	2106.7	2134.4	2200.3	2228.0	2307.7	2397.8	2449.7
15°	2023.5	2023.5	2033.9	2072.1	2110.2	2176.0	2273.0	2304.2	2397.8	2508.6	2577.9
17.5°	2002.8	2009.7	2016.6	2054.7	2127.5	2238.4	2352.7	2397.8	2512.1	2633.4	2709.6
20°	2006.2	2013.2	2016.6	2054.7	2158.7	2311.1	2456.7	2508.6	2640.3	2768.5	2844.7
22.5°	2027.0	2037.4	2040.9	2092.8	2214.1	2387.4	2574.5	2633.4	2775.4	2910.6	2969.5
25°	2113.6	2120.6	2099.8	2144.8	2293.8	2505.2	2726.9	2789.3	2931.4	3056.1	3104.6
27.5°	2408.2	2415.1	2300.7	2248.8	2356.2	2602.2	2914.0	3000.7	3177.4	3260.5	3267.5
30°	3045.7	3052.6	2827.4	2581.4	2505.2	2685.4	3018.0	3139.3	3368.0	3461.5	3419.9
32.5°	3866.9	3860.0	3551.6	3187.8	2858.6	2830.9	3167.0	3295.2	3544.7	3634.8	3603.6
35°	4691.6	4702.0	4438.6	3891.2	3419.9	3104.6	3357.6	3506.6	3808.0	3936.2	3880.8
37.5°	5256.4	5325.7	5211.3	4618.8	4109.5	3610.5	3665.9	3825.3	4203.0	4376.3	4258.5
40°	6053.3	6036.0	5758.8	5322.2	4871.8	4358.9	4164.9	4241.1	4674.3	4906.4	4722.8
42.5°	7124.0	7089.4	6618.1	6191.9	5689.5	5270.2	4875.2	4861.4	5214.8	5485.1	5218.3
45°	8094.2	8042.2	7720.0	7307.6	6756.7	6275.1	5741.5	5620.2	5866.2	6094.9	5783.1
47.5°	8866.9	8780.3	8551.6	8333.3	8198.1	7449.7	6649.3	6465.7	6590.4	6760.2	6320.1
50°	9781.6	9542.6	9209.9	9078.2	9358.9	8780.3	7522.5	7345.8	7338.8	7435.8	6874.5
52.5°	10197.4	9764.3	9577.2	9688.1	10183.6	10017.3	8464.9	8212.0	8111.5	8121.9	7390.8
55°	9695.0	9646.5	9747.0	10093.5	10741.4	10644.4	9369.3	9057.5	8908.5	8721.4	7886.3
57.5°	9123.3	9272.3	9670.8	10332.6	11448.3	11299.3	10259.8	9906.4	9632.6	9203.0	8437.2
60°	8596.6	8749.1	9407.4	10388.0	11836.4	11929.9	11001.3	10665.2	10259.8	9695.0	9043.6
62.5°	7796.2	7914.0	8839.2	10308.3	11666.6	12297.2	11517.6	11264.7	10887.0	10162.8	9740.1
65°	6895.3	6971.5	7886.3	9670.8	11334.0	12255.6	11943.8	11801.7	11434.4	10651.4	10429.6
67.5°	5907.8	5997.9	6760.2	8523.9	10682.5	12061.6	12345.7	12331.9	11912.6	11191.9	10928.5
70°	4771.3	4778.2	5408.8	7068.6	9546.0	11673.5	12844.7	12875.9	12370.0	11597.3	10949.3
72.5°	2283.4	2470.5	3506.6	4934.1	7758.1	10911.2	13170.4	13326.3	12657.6	11583.4	9767.8
75°	523.2	540.5	1022.2	2345.8	4549.5	8374.9	12356.1	12647.2	11957.6	10017.3	6881.5
77.5°	190.6	201.0	287.6	686.1	1749.8	4327.8	8842.6	9268.8	8839.2	6476.0	3253.6
80°	128.2	124.7	149.0	304.9	803.9	1226.6	4521.8	4774.7	4358.9	2210.7	779.6
82.5°	65.8	69.3	103.9	169.8	540.5	426.2	1510.7	1642.4	1351.3	443.5	145.5
85°	31.2	31.2	58.9	107.4	228.7	149.0	336.1	405.4	363.8	194.0	48.5
87.5°	31.2	31.2	55.4	69.3	117.8	62.4	83.2	103.9	97.0	103.9	17.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400060

CATALOG NUMBER: ARCH-L-PA3-230-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0
2.5°	2307.7	2304.2	2300.7	2307.7	2304.2	2311.1	2311.1	2318.1	2318.1	2311.1	2307.7
5°	2276.5	2269.6	2262.6	2262.6	2259.2	2266.1	2286.9	2304.2	2307.7	2297.3	2293.8
7.5°	2280.0	2280.0	2273.0	2259.2	2234.9	2234.9	2234.9	2255.7	2266.1	2259.2	2255.7
10°	2342.3	2345.8	2328.5	2297.3	2255.7	2217.6	2144.8	2037.4	1936.9	1909.2	1898.8
12.5°	2449.7	2453.2	2418.6	2363.1	2276.5	2051.3	1774.1	1517.7	1320.2	1264.7	1254.3
15°	2577.9	2581.4	2519.0	2429.0	2165.6	1642.4	1230.1	939.0	765.8	724.2	720.7
17.5°	2709.6	2702.7	2609.1	2435.9	1836.4	1164.2	748.4	599.4	554.4	544.0	547.5
20°	2837.8	2817.0	2688.8	2307.7	1413.7	762.3	547.5	512.8	502.4	495.5	495.5
22.5°	2955.6	2914.0	2754.7	2054.7	991.0	547.5	488.6	481.6	467.8	457.4	453.9
25°	3073.4	3014.5	2796.2	1725.6	665.3	478.2	460.8	447.0	429.7	415.8	412.3
27.5°	3215.5	3132.3	2775.4	1309.8	499.0	443.5	429.7	408.9	384.6	363.8	356.9
30°	3350.6	3257.1	2657.6	904.4	426.2	408.9	388.1	356.9	325.7	301.5	294.5
32.5°	3520.4	3413.0	2446.3	592.5	370.8	356.9	336.1	298.0	256.4	228.7	221.8
35°	3763.0	3641.7	2176.0	415.8	325.7	301.5	273.7	232.2	187.1	166.3	162.9
37.5°	4102.5	3939.7	1836.4	336.1	287.6	252.9	211.4	169.8	138.6	121.3	117.8
40°	4518.3	4268.9	1458.8	298.0	256.4	211.4	159.4	121.3	100.5	86.6	86.6
42.5°	4968.8	4577.2	1074.1	273.7	225.2	173.2	117.8	86.6	72.8	65.8	62.4
45°	5433.1	4851.0	724.2	252.9	197.5	131.7	83.2	58.9	48.5	48.5	45.0
47.5°	5914.7	5034.6	467.8	228.7	166.3	97.0	55.4	41.6	34.6	34.6	34.6
50°	6392.9	5131.6	332.6	207.9	135.1	65.8	41.6	31.2	27.7	27.7	27.7
52.5°	6739.4	5069.3	266.8	180.2	103.9	48.5	31.2	24.3	20.8	20.8	20.8
55°	7040.8	4961.9	232.2	155.9	76.2	34.6	24.3	20.8	17.3	17.3	17.3
57.5°	7349.2	4823.3	207.9	131.7	55.4	24.3	17.3	13.9	13.9	13.9	13.9
60°	7629.9	4587.6	180.2	103.9	38.1	17.3	13.9	10.4	10.4	10.4	10.4
62.5°	7903.6	4386.7	155.9	79.7	27.7	13.9	6.9	6.9	3.5	3.5	3.5
65°	8059.5	4116.4	124.7	52.0	17.3	10.4	3.5	3.5	0.0	0.0	0.0
67.5°	8011.0	3794.2	86.6	31.2	10.4	6.9	3.5	0.0	0.0	0.0	0.0
70°	7674.9	3361.0	52.0	17.3	10.4	6.9	3.5	0.0	0.0	0.0	0.0
72.5°	6427.5	2487.9	31.2	13.9	6.9	3.5	0.0	0.0	0.0	0.0	0.0
75°	4293.1	1143.4	17.3	10.4	3.5	3.5	0.0	0.0	0.0	0.0	0.0
77.5°	1964.6	343.0	10.4	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	395.0	90.1	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	83.2	17.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	3.5	0.0	0.0	0.0	0.0	0.0	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)