

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: P237239

Luminaire Tested: **ARCH-L-AF72-260-D-U-T3-7050-HSS**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29624)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T3-7050-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1110mA 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: 21110 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

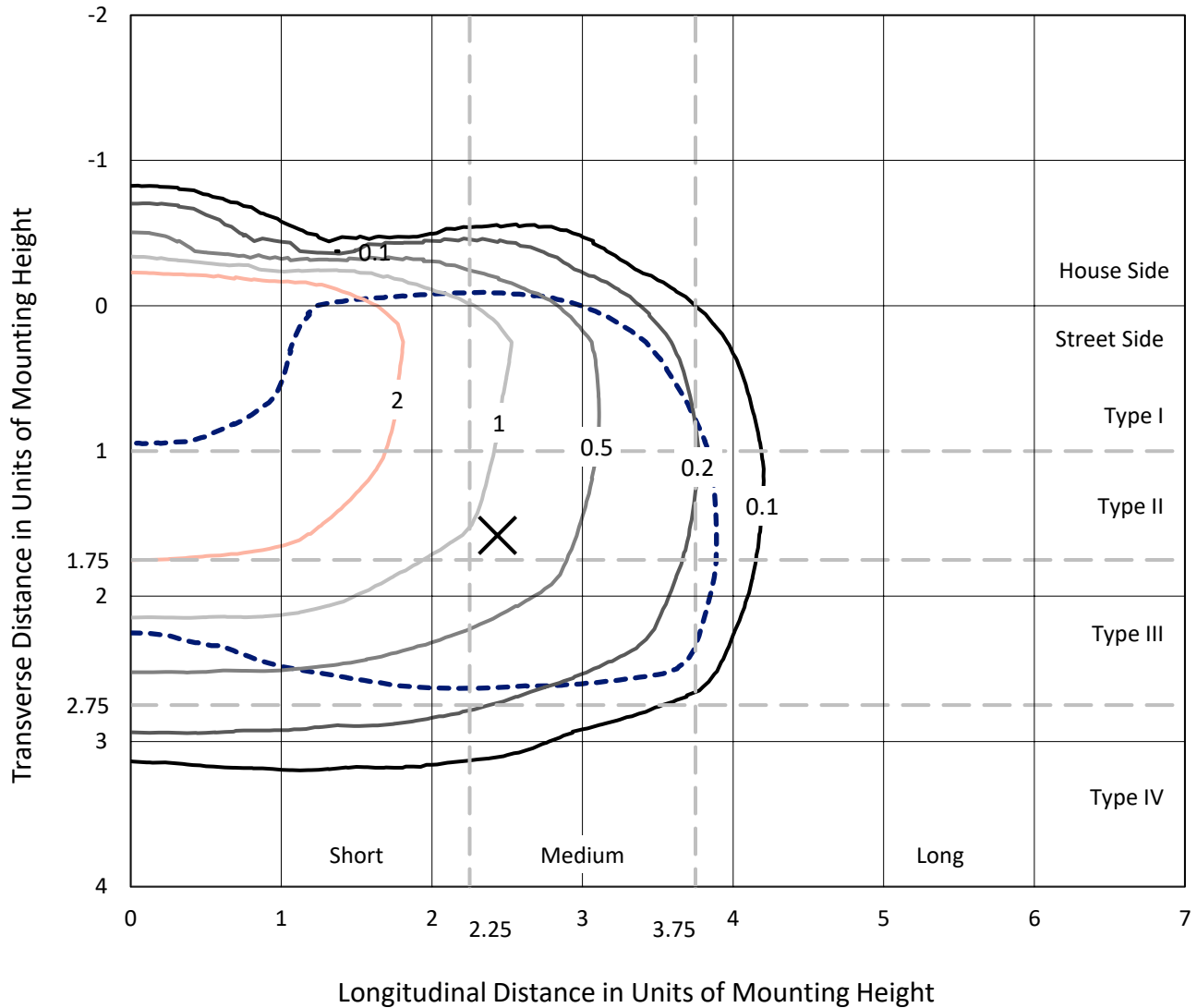
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P237239
 CATALOG NUMBER: ARCH-L-AF72-260-D-U-T3-7050-HSS

Iso-Footcandle Lines of Horizontal Illumination

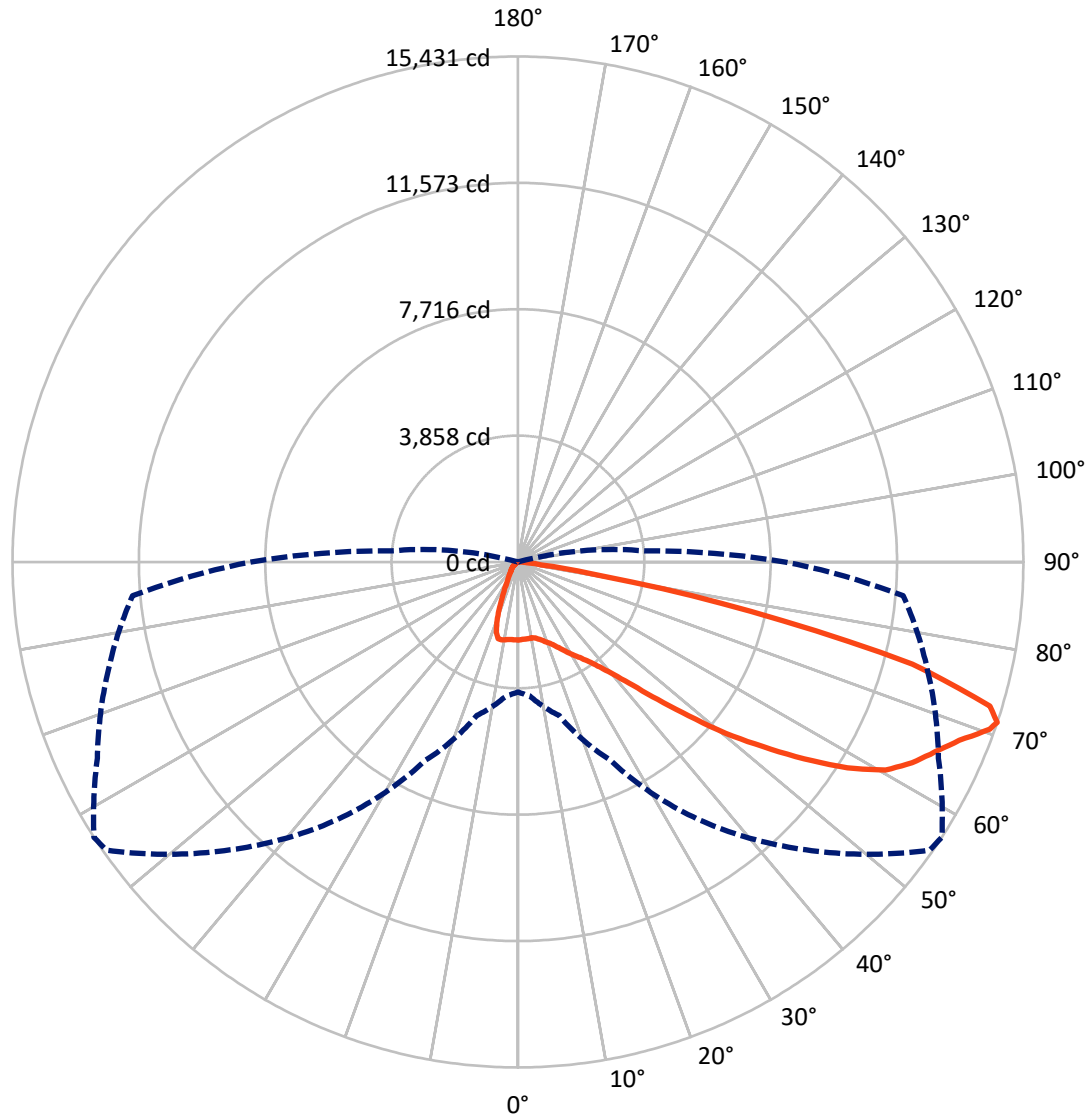
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P237239
CATALOG NUMBER: ARCH-L-AF72-260-D-U-T3-7050-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P237239

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T3-7050-HSS

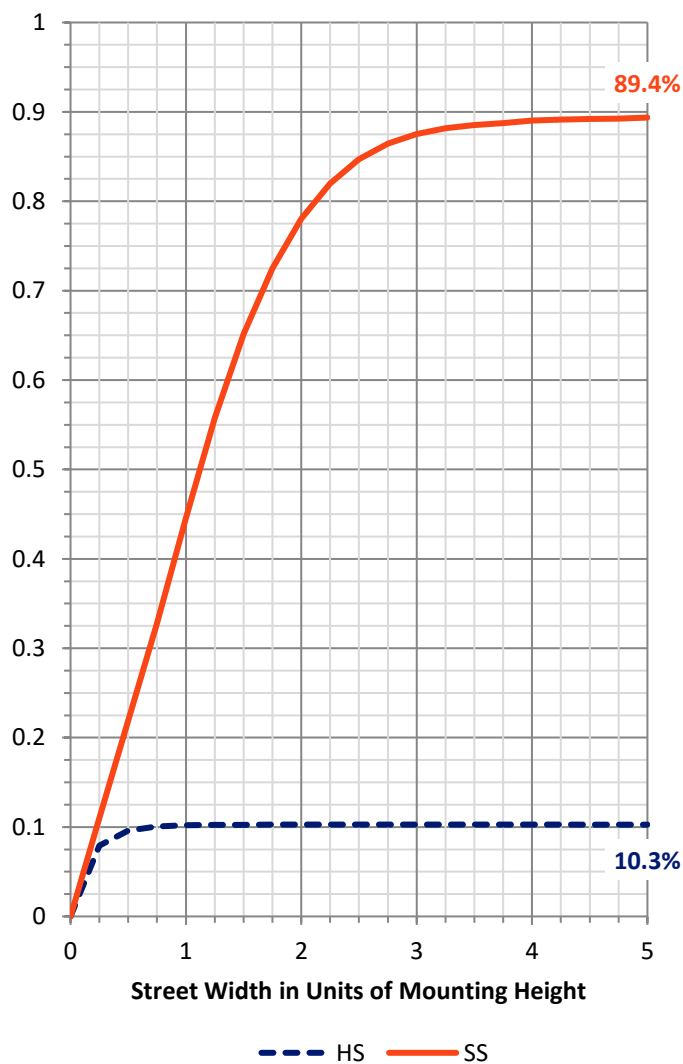
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2187.6	0.0	2187.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18922.4	0.0	18922.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	21110.0	0.0	21110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	1.1
10°-20°	599.1	2.8
20°-30°	934.5	4.4
30°-40°	1579.5	7.5
40°-50°	3067.8	14.5
50°-60°	5151.9	24.4
60°-70°	6148.3	29.1
70°-80°	3240.2	15.3
80°-90°	164.6	0.8
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°	21110.0	100.0
0°-180°	21110.0	100.0

Coefficient of Utilization



REPORT NUMBER: P237239

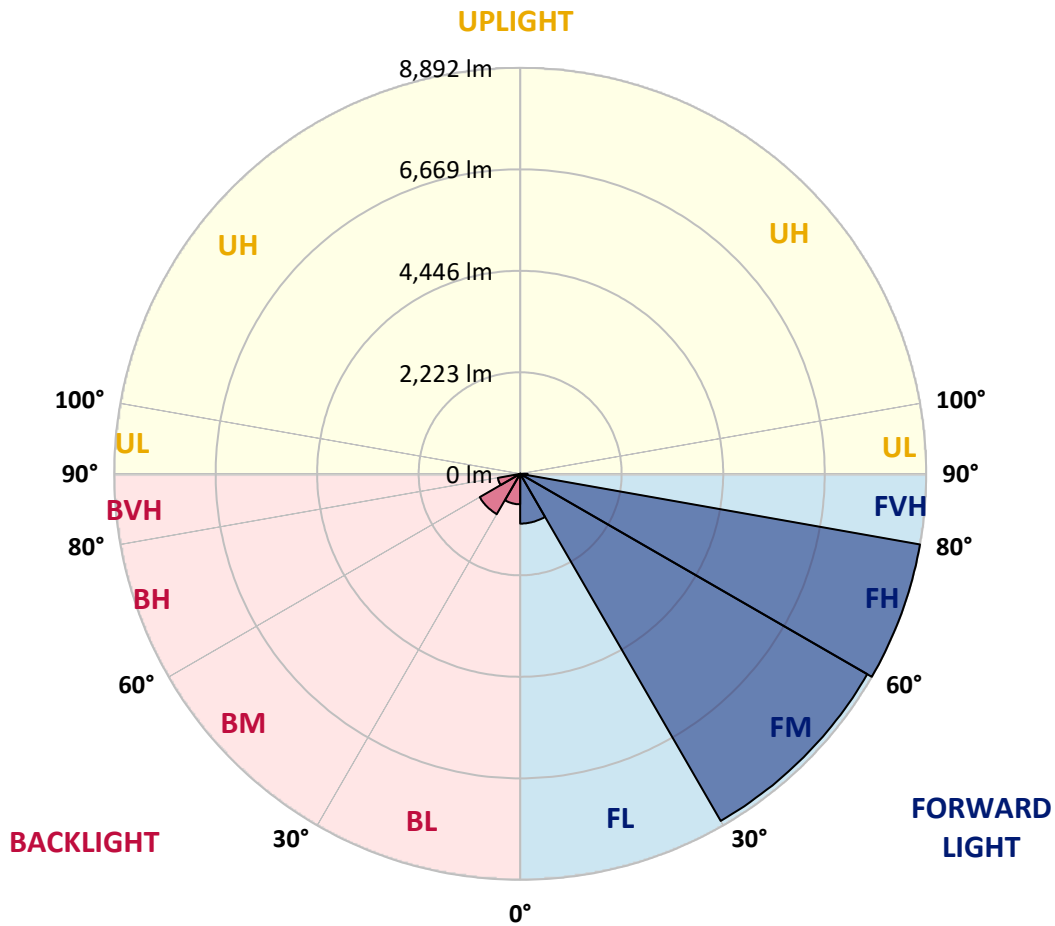
CATALOG NUMBER: ARCH-L-AF72-260-D-U-T3-7050-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.9	5.2			
FM (30°-60°)	8777.7	41.6			
FH (60°-80°)	8891.7	42.1			G4/12000
FVH (80°-90°)	163.1	0.8			G2/225
BL (0°-30°)	667.8	3.2	B2/1000		
BM (30°-60°)	1021.5	4.8	B2/2500		
BH (60°-80°)	496.8	2.4	B1/500		G1/500
BVH (80°-90°)	1.6	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 III Medium





REPORT NUMBER: P237239

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T3-7050-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8
2.5°	2351.3	2351.3	2351.3	2356.2	2361.2	2361.2	2371.0	2366.1	2366.1	2366.1	2375.9
5°	2287.4	2292.3	2297.2	2307.0	2326.7	2341.5	2366.1	2366.1	2371.0	2380.8	2385.8
7.5°	2198.8	2203.7	2218.5	2238.2	2277.5	2312.0	2351.3	2361.2	2375.9	2400.5	2410.3
10°	2144.7	2154.6	2174.2	2198.8	2243.1	2287.4	2336.6	2351.3	2395.6	2439.9	2464.5
12.5°	2130.0	2134.9	2154.6	2193.9	2248.0	2302.1	2366.1	2380.8	2444.8	2513.6	2553.0
15°	2154.6	2159.5	2169.3	2213.6	2277.5	2346.4	2430.0	2449.7	2528.4	2607.1	2656.3
17.5°	2198.8	2198.8	2208.7	2248.0	2316.9	2395.6	2503.8	2533.3	2621.9	2710.4	2764.5
20°	2228.3	2228.3	2243.1	2282.4	2361.2	2464.5	2592.4	2631.7	2730.1	2828.5	2877.7
22.5°	2257.9	2262.8	2277.5	2321.8	2410.3	2553.0	2700.6	2739.9	2853.1	2956.4	3005.6
25°	2341.5	2336.6	2341.5	2380.8	2484.1	2661.2	2848.1	2897.3	3015.4	3128.5	3153.1
27.5°	2572.7	2562.8	2498.9	2474.3	2553.0	2774.4	3035.1	3084.3	3222.0	3335.1	3335.1
30°	3103.9	3084.3	2926.8	2725.2	2661.2	2877.7	3212.2	3281.0	3458.1	3556.5	3527.0
32.5°	3777.8	3733.6	3531.9	3187.6	2931.8	3015.4	3399.1	3477.8	3704.1	3787.7	3723.7
35°	4515.7	4510.8	4259.9	3817.2	3453.2	3300.7	3640.1	3733.6	4018.9	4092.7	3989.4
37.5°	5297.8	5317.5	5150.3	4540.3	4112.3	3768.0	3959.9	4068.1	4417.3	4505.9	4407.5
40°	6168.5	6163.6	6099.6	5376.5	4904.3	4432.1	4422.2	4520.6	4943.7	5081.4	4943.7
42.5°	7270.4	7260.6	7029.4	6380.0	5863.5	5297.8	5096.2	5130.6	5602.8	5829.1	5627.4
45°	8391.9	8323.1	8057.4	7496.7	7039.2	6370.2	5986.5	5986.5	6389.9	6699.8	6385.0
47.5°	9016.7	8947.8	8839.6	8529.7	8391.9	7644.2	7078.5	7009.7	7324.5	7639.3	7196.6
50°	9838.1	9838.1	9567.6	9449.5	9685.7	9159.3	8283.7	8214.9	8367.3	8618.2	8037.8
52.5°	10487.5	10369.4	10177.6	10280.9	10954.8	10713.7	9488.9	9356.1	9474.1	9538.1	8770.7
55°	10758.0	10644.9	10630.1	11008.9	12051.7	11717.2	10723.6	10605.5	10595.7	10280.9	9410.2
57.5°	10812.1	10713.7	10900.7	11564.7	13119.2	12538.7	11953.3	11864.8	11589.3	10802.3	10064.4
60°	10354.6	10403.8	10856.4	11869.7	13748.8	13252.0	12991.3	12897.8	12263.2	11245.0	10792.4
62.5°	9415.1	9533.2	10379.2	11899.2	13517.6	13542.2	13566.8	13502.9	12784.7	11648.4	11525.4
65°	8303.4	8337.8	9356.1	11491.0	13114.2	13453.7	13989.8	13984.9	13183.1	12100.9	12351.8
67.5°	6842.4	6901.5	7782.0	10113.6	12307.5	13414.3	14545.7	14530.9	13635.7	12617.4	12843.7
70°	5091.2	5165.0	5878.3	7865.6	10507.1	12922.4	15273.7	15283.6	14112.8	13010.9	12504.3
71°	3969.7	4102.5	4850.2	6680.1	9587.3	12425.6	15342.6	15431.1	14166.9	12956.8	11805.8
72.5°	1948.0	2105.4	3044.9	4702.6	7890.2	11313.9	14890.0	15062.2	13827.5	12282.9	10093.9
75°	506.7	536.2	910.0	1923.4	4230.4	7496.7	12007.5	12445.3	11304.0	9351.2	6168.5
77.5°	319.7	329.6	428.0	747.7	1583.9	2848.1	7053.9	7270.4	6458.7	4737.1	2174.2
80°	226.3	231.2	270.5	482.1	924.8	831.3	2538.2	2631.7	2336.6	1254.4	388.6
82.5°	137.7	137.7	196.8	309.9	570.6	452.6	669.0	713.3	629.6	349.3	127.9
85°	78.7	83.6	123.0	211.5	270.5	221.4	250.9	265.6	270.5	231.2	54.1
87.5°	63.9	68.9	108.2	177.1	147.6	108.2	108.2	113.1	118.1	137.7	24.6
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: P237239

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T3-7050-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8
2.5°	2375.9	2375.9	2380.8	2375.9	2375.9	2375.9	2380.8	2380.8	2380.8	2390.7	2395.6
5°	2385.8	2385.8	2385.8	2380.8	2375.9	2375.9	2385.8	2390.7	2390.7	2405.4	2405.4
7.5°	2410.3	2410.3	2400.5	2390.7	2380.8	2366.1	2371.0	2375.9	2371.0	2375.9	2375.9
10°	2464.5	2464.5	2449.7	2430.0	2400.5	2356.2	2297.2	2223.4	2154.6	2130.0	2120.1
12.5°	2553.0	2548.1	2518.6	2484.1	2420.2	2267.7	2046.3	1785.6	1569.2	1510.2	1490.5
15°	2651.4	2641.5	2607.1	2548.1	2375.9	1972.5	1510.2	1175.7	969.1	919.9	910.0
17.5°	2754.7	2739.9	2690.7	2572.7	2174.2	1465.9	974.0	737.9	624.7	614.9	619.8
20°	2862.9	2843.2	2774.4	2523.5	1756.1	978.9	629.6	570.6	560.8	560.8	565.7
22.5°	2985.9	2961.3	2867.8	2346.4	1279.0	649.3	541.1	536.2	531.3	526.3	526.3
25°	3128.5	3099.0	2956.4	2026.7	880.5	531.3	516.5	501.7	491.9	482.1	477.2
27.5°	3300.7	3261.3	3025.2	1633.1	605.0	496.8	487.0	462.4	442.7	423.0	423.0
30°	3472.9	3423.7	3005.6	1229.8	491.9	462.4	442.7	413.2	383.7	364.0	359.1
32.5°	3654.9	3605.7	2877.7	826.4	447.6	423.0	398.4	354.2	319.7	295.1	290.2
35°	3925.4	3886.1	2626.8	546.0	403.4	373.8	339.4	295.1	250.9	226.3	221.4
37.5°	4328.8	4279.6	2316.9	418.1	354.2	309.9	280.4	231.2	186.9	162.3	157.4
40°	4869.9	4722.3	1948.0	368.9	309.9	255.8	216.4	167.2	132.8	118.1	118.1
42.5°	5499.5	5150.3	1549.5	334.5	275.5	211.5	157.4	113.1	93.5	88.5	88.5
45°	6168.5	5548.7	1151.1	309.9	241.0	167.2	113.1	78.7	68.9	63.9	63.9
47.5°	6857.2	5873.4	801.8	280.4	201.7	127.9	78.7	59.0	49.2	44.3	44.3
50°	7501.6	6084.9	565.7	250.9	172.2	93.5	59.0	44.3	34.4	34.4	34.4
52.5°	7949.2	6065.2	408.3	216.4	132.8	63.9	39.4	29.5	29.5	29.5	29.5
55°	8342.7	5991.4	319.7	186.9	103.3	44.3	29.5	24.6	24.6	19.7	19.7
57.5°	8677.2	5873.4	270.5	152.5	73.8	34.4	19.7	19.7	14.8	14.8	14.8
60°	8962.5	5725.8	226.3	127.9	49.2	24.6	14.8	9.8	9.8	4.9	9.8
62.5°	9351.2	5632.3	196.8	98.4	34.4	14.8	9.8	4.9	4.9	0.0	0.0
65°	9636.5	5455.3	167.2	68.9	19.7	9.8	4.9	4.9	0.0	0.0	0.0
67.5°	9646.3	5135.5	123.0	39.4	14.8	9.8	4.9	0.0	0.0	0.0	0.0
70°	8869.1	4378.0	78.7	19.7	9.8	4.9	4.9	0.0	0.0	0.0	0.0
71°	8155.8	3876.2	63.9	14.8	9.8	4.9	0.0	0.0	0.0	0.0	0.0
72.5°	6719.5	2848.1	49.2	14.8	4.9	4.9	0.0	0.0	0.0	0.0	0.0
75°	3704.1	1033.0	24.6	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1185.5	314.8	14.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	201.7	49.2	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	68.9	19.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.7	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	4.9	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)