

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: P400353

Luminaire Tested: **ARCH-L-PA3-270-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-270-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25650 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

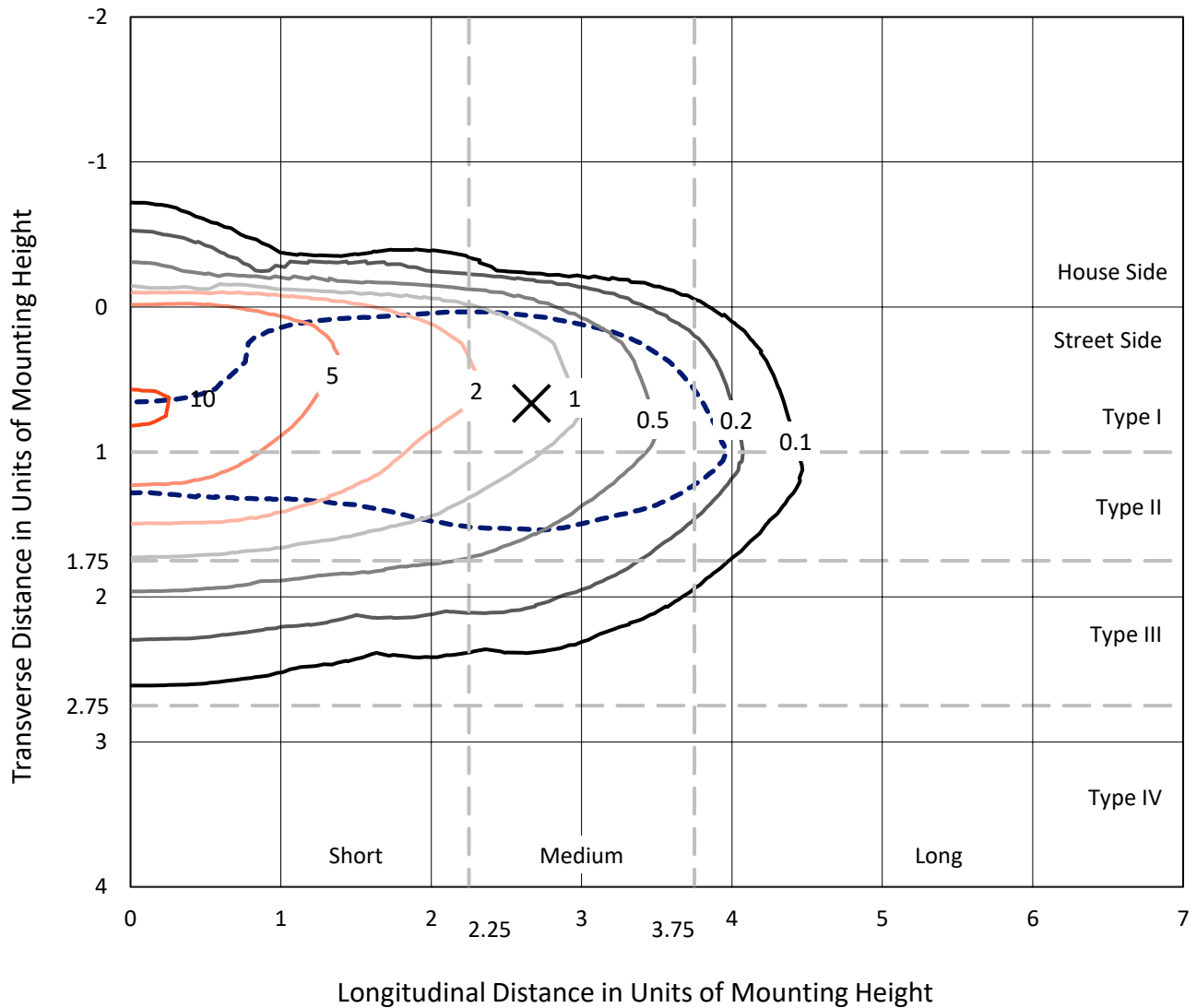
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

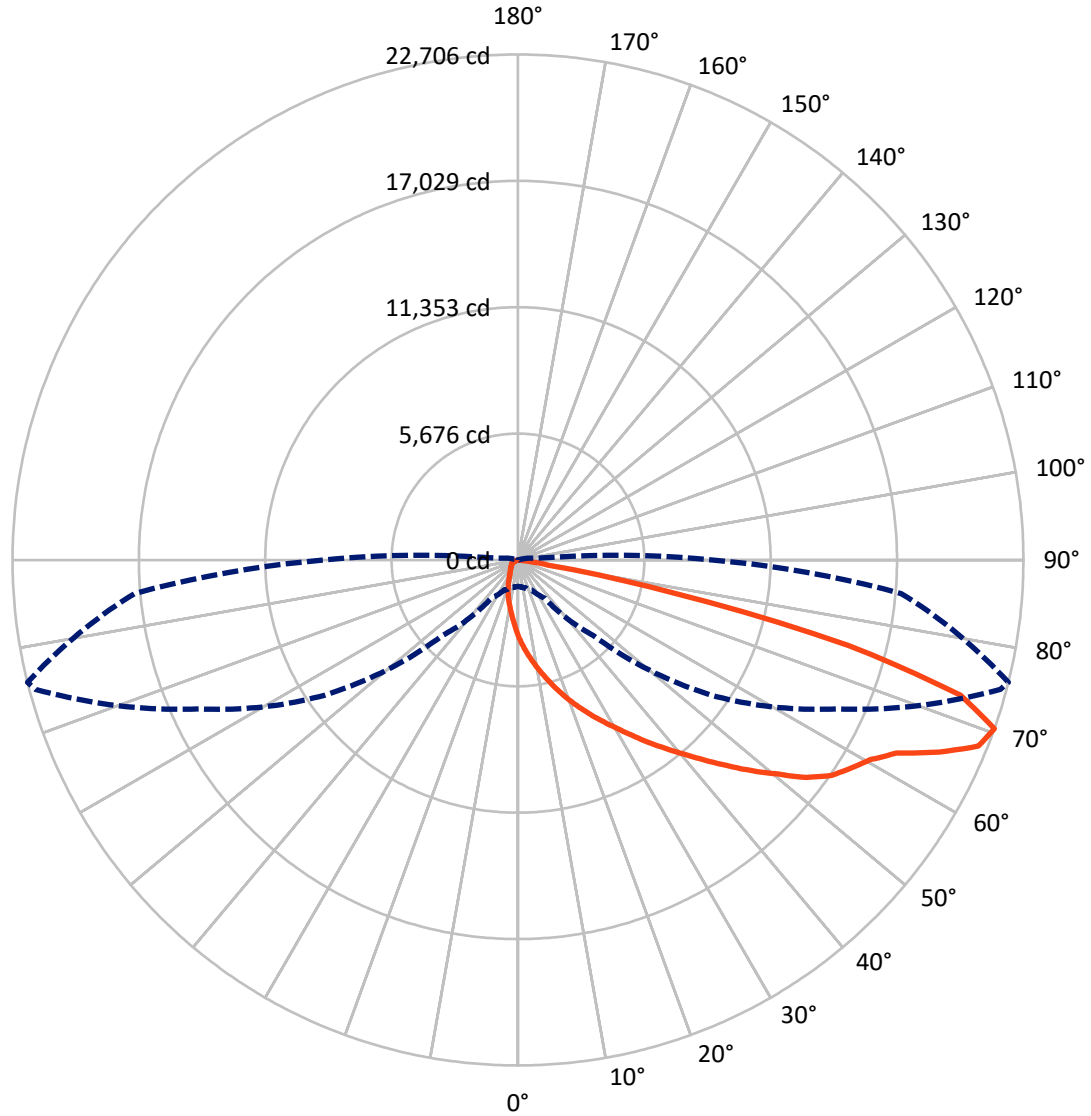
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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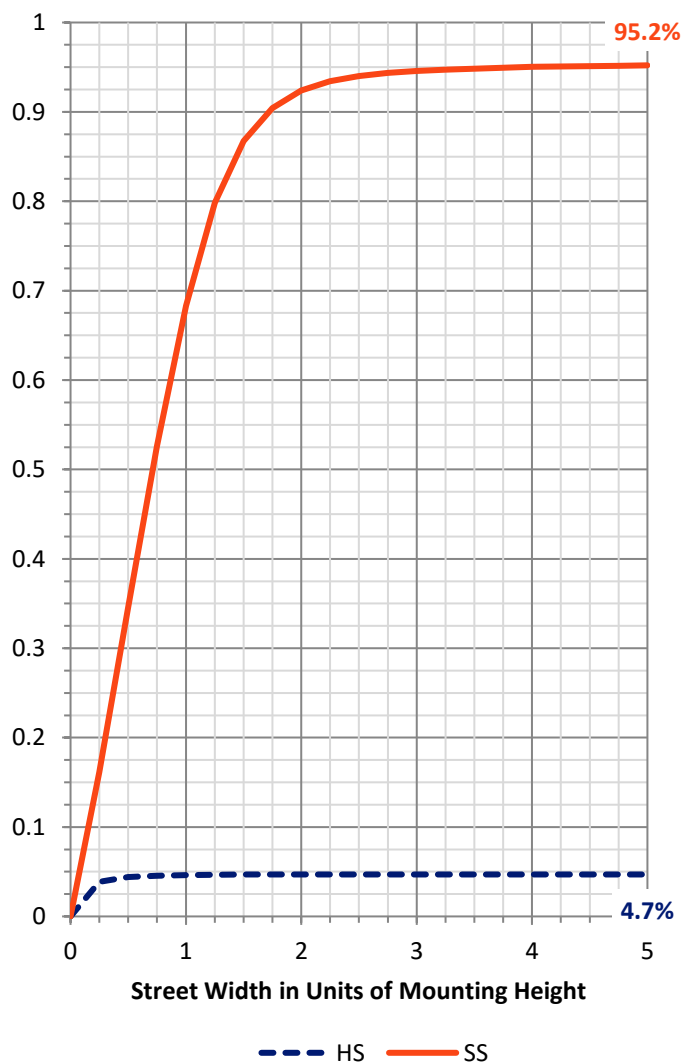
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1209.7	0.0	1209.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	24440.3	0.0	24440.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	25650.0	0.0	25650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.4	1.3
10°-20°	1043.9	4.1
20°-30°	1944.2	7.6
30°-40°	3438.9	13.4
40°-50°	5258.8	20.5
50°-60°	5962.3	23.2
60°-70°	5111.1	19.9
70°-80°	2475.5	9.7
80°-90°	91.8	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°	25650.0	100.0
0°-180°	25650.0	100.0

Coefficient of Utilization

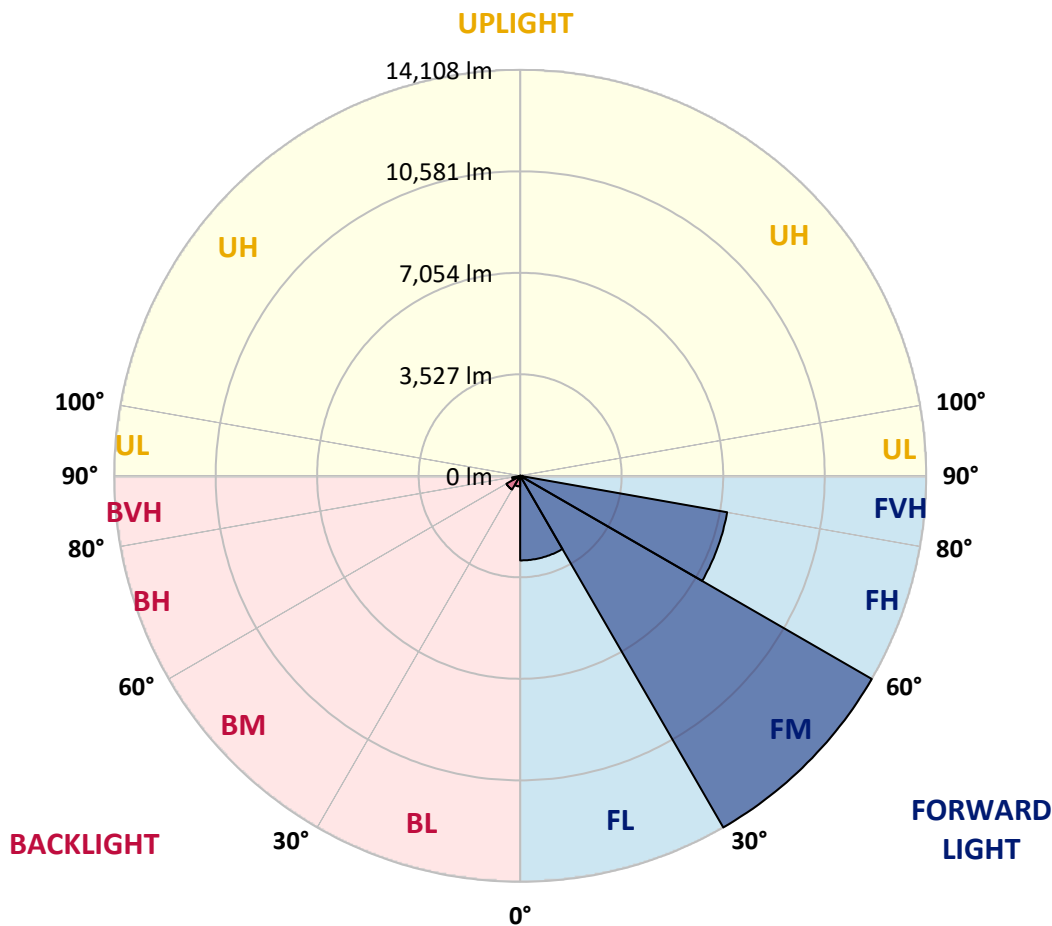


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2940.5	11.5			
FM (30°-60°)	14107.7	55.0			
FH (60°-80°)	7301.8	28.5			G3/7500
FVH (80°-90°)	90.3	0.4			G1/100
BL (0°-30°)	371.1	1.4	B1/500		
BM (30°-60°)	552.2	2.2	B1/1000		
BH (60°-80°)	284.8	1.1	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: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3433.4	3433.4	3433.4	3433.4	3433.4	3433.4	3433.4	3433.4	3433.4	3433.4	3433.4
2.5°	4693.2	4667.6	4641.9	4543.7	4454.0	4372.9	4219.2	4018.5	3839.1	3800.7	3591.4
5°	5513.1	5483.2	5444.8	5346.6	5231.3	5094.6	4868.3	4560.8	4244.8	4176.5	3787.9
7.5°	6068.3	6042.6	5987.1	5940.2	5824.9	5692.5	5440.5	5081.8	4646.2	4560.8	4014.2
10°	6448.3	6431.3	6422.7	6384.3	6298.9	6192.1	5940.2	5564.4	5051.9	4953.7	4253.3
12.5°	6585.0	6585.0	6627.7	6691.7	6704.6	6670.4	6439.8	6064.0	5478.9	5376.5	4535.2
15°	6401.4	6422.7	6516.7	6721.6	6935.2	7076.1	6930.9	6580.7	5948.7	5837.7	4868.3
17.5°	6350.1	6371.5	6435.5	6614.9	6901.0	7276.8	7349.4	7080.4	6392.8	6298.9	5209.9
20°	6495.3	6516.7	6572.2	6725.9	6943.7	7323.8	7627.0	7562.9	6862.6	6764.3	5555.8
22.5°	6841.2	6854.0	6854.0	6973.6	7165.8	7447.6	7802.1	8019.8	7345.1	7238.4	5897.4
25°	7584.3	7558.6	7456.2	7396.4	7520.2	7750.8	8024.1	8421.3	7883.2	7738.0	6264.7
27.5°	8557.9	8643.3	8395.6	8109.5	8015.6	8148.0	8335.9	8775.7	8404.2	8250.5	6597.8
30°	9877.5	9843.3	9518.8	9108.8	8703.1	8656.1	8720.2	9078.9	8925.2	8780.0	6969.3
32.5°	10962.2	11026.2	10684.6	10185.0	9578.6	9292.4	9224.1	9441.9	9480.3	9386.4	7409.2
35°	12076.7	12145.1	11812.0	11256.8	10535.1	10056.8	9860.4	9890.3	10167.9	10048.3	7870.4
37.5°	13076.0	13135.8	12807.0	12239.0	11517.3	10932.3	10650.4	10419.8	10834.1	10727.3	8357.2
40°	13836.2	13844.7	13622.6	13114.5	12431.2	11824.8	11504.5	11051.8	11538.7	11466.1	8865.4
42.5°	14374.2	14391.3	14229.0	13793.5	13161.4	12597.7	12337.2	11799.2	12350.1	12286.0	9454.7
45°	14626.2	14656.1	14639.0	14237.6	13712.3	13225.5	13140.1	12593.5	13238.3	13178.5	10133.7
47.5°	14387.0	14387.0	14604.8	14549.3	14066.8	13742.2	13840.4	13421.9	14203.4	14147.9	10825.5
50°	13392.0	13404.8	13849.0	14485.3	14203.4	14130.8	14438.3	14233.3	15078.9	15113.0	11654.0
52.5°	10778.5	10757.2	12256.1	13477.4	14109.5	14305.9	14989.2	15061.8	16129.4	16231.9	12478.2
55°	8054.0	8041.2	9476.1	11692.4	13451.8	14216.2	15296.6	15800.6	17026.2	17090.2	13093.1
57.5°	6375.7	6341.6	7131.6	9424.8	11965.7	13814.8	15309.5	15941.5	17525.8	17636.8	13691.0
60°	4902.4	4872.5	5461.9	7012.0	9860.4	12747.2	14942.2	15950.0	18008.4	18204.8	14493.8
62.5°	3506.0	3540.2	3992.8	5030.6	7584.3	11239.7	14463.9	16069.6	18866.7	19088.8	15634.0
65°	2365.8	2348.7	2724.5	3424.9	5393.5	9211.3	13729.4	16321.5	20412.6	20801.2	17000.5
67.5°	1644.1	1656.9	1827.7	2229.2	3424.9	7071.8	12508.1	16462.5	22009.7	22312.9	17957.1
70°	1187.2	1204.3	1298.2	1498.9	2092.5	4795.7	10573.6	15817.6	22441.1	22705.8	17290.9
72.5°	781.5	815.7	956.6	1063.3	1336.6	3002.1	7789.2	13626.9	20583.4	20779.9	14506.6
75°	422.8	431.3	614.9	794.3	952.3	1870.4	4646.2	9189.9	15399.1	15335.1	9565.7
77.5°	328.8	341.6	380.1	568.0	640.6	1029.2	1836.3	4150.8	7293.9	7097.4	3262.6
80°	200.7	209.3	264.8	337.4	448.4	597.9	538.1	1127.4	1481.8	1387.9	478.3
82.5°	119.6	128.1	158.0	281.8	354.4	281.8	187.9	273.3	277.6	273.3	119.6
85°	21.4	21.4	111.0	196.4	187.9	81.1	111.0	89.7	81.1	85.4	25.6
87.5°	0.0	0.0	42.7	59.8	85.4	29.9	42.7	21.4	21.4	21.4	12.8
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°	3433.4	3433.4	3433.4	3433.4	3433.4	3433.4	3433.4	3433.4	3433.4	3433.4	3433.4
2.5°	3463.3	3318.1	3019.2	2758.7	2498.2	2306.0	2160.8	2011.4	1960.1	1896.1	1861.9
5°	3523.1	3237.0	2643.4	2169.4	1768.0	1460.5	1264.0	1144.5	1067.6	1012.1	999.3
7.5°	3612.8	3172.9	2340.2	1699.6	1259.8	952.3	790.0	708.9	666.2	640.6	632.0
10°	3719.5	3117.4	2041.3	1323.8	888.2	670.5	580.8	546.6	529.5	521.0	516.7
12.5°	3869.0	3096.1	1789.3	1020.6	670.5	550.9	503.9	482.6	469.7	456.9	452.7
15°	4065.4	3104.6	1558.7	790.0	555.2	491.1	452.7	431.3	414.2	401.4	401.4
17.5°	4270.4	3117.4	1332.4	640.6	503.9	448.4	405.7	375.8	363.0	350.2	345.9
20°	4462.6	3113.1	1114.6	546.6	456.9	401.4	358.7	328.8	307.5	294.7	294.7
22.5°	4646.2	3087.5	909.6	491.1	418.5	354.4	307.5	277.6	260.5	247.7	247.7
25°	4842.7	3036.3	743.1	448.4	371.5	311.7	264.8	234.9	222.1	209.3	209.3
27.5°	4996.4	2950.9	606.4	410.0	328.8	269.0	226.3	200.7	187.9	179.4	179.4
30°	5162.9	2827.0	503.9	367.3	286.1	230.6	192.2	170.8	158.0	153.7	153.7
32.5°	5346.6	2690.4	431.3	324.6	243.4	196.4	162.3	149.5	136.7	132.4	132.4
35°	5560.1	2570.8	388.6	281.8	213.5	166.5	140.9	128.1	119.6	119.6	119.6
37.5°	5803.5	2447.0	350.2	247.7	183.6	140.9	119.6	115.3	111.0	106.8	106.8
40°	6068.3	2314.6	316.0	217.8	158.0	119.6	102.5	102.5	98.2	98.2	98.2
42.5°	6367.2	2199.3	286.1	192.2	136.7	102.5	89.7	89.7	85.4	85.4	85.4
45°	6691.7	2092.5	260.5	170.8	119.6	89.7	81.1	76.9	72.6	72.6	72.6
47.5°	7076.1	2032.7	239.1	149.5	102.5	76.9	68.3	64.1	59.8	55.5	55.5
50°	7567.2	2058.3	217.8	123.8	89.7	64.1	55.5	51.2	47.0	42.7	42.7
52.5°	7955.8	2045.5	187.9	106.8	72.6	51.2	42.7	38.4	34.2	29.9	29.9
55°	8237.6	1994.3	162.3	89.7	55.5	42.7	34.2	25.6	21.4	21.4	21.4
57.5°	8515.2	1943.0	136.7	72.6	42.7	29.9	21.4	17.1	17.1	17.1	17.1
60°	8946.5	1870.4	119.6	59.8	34.2	21.4	12.8	12.8	8.5	8.5	8.5
62.5°	9471.8	1780.8	98.2	51.2	25.6	17.1	8.5	8.5	0.0	0.0	0.0
65°	10048.3	1622.8	81.1	38.4	21.4	12.8	8.5	0.0	0.0	0.0	0.0
67.5°	9915.9	1302.5	68.3	25.6	17.1	8.5	4.3	0.0	0.0	0.0	0.0
70°	8771.4	879.7	55.5	21.4	12.8	8.5	4.3	0.0	0.0	0.0	0.0
72.5°	6871.1	521.0	38.4	17.1	8.5	4.3	0.0	0.0	0.0	0.0	0.0
75°	4398.5	260.5	25.6	12.8	8.5	4.3	0.0	0.0	0.0	0.0	0.0
77.5°	1473.3	128.1	17.1	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	209.3	42.7	8.5	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.0	17.1	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.1	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	4.3	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)