

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: P400359

Luminaire Tested: **ARCH-L-PA3-270-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
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-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23171 lumens
Efficiency: N/A
Efficacy: 84.9 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

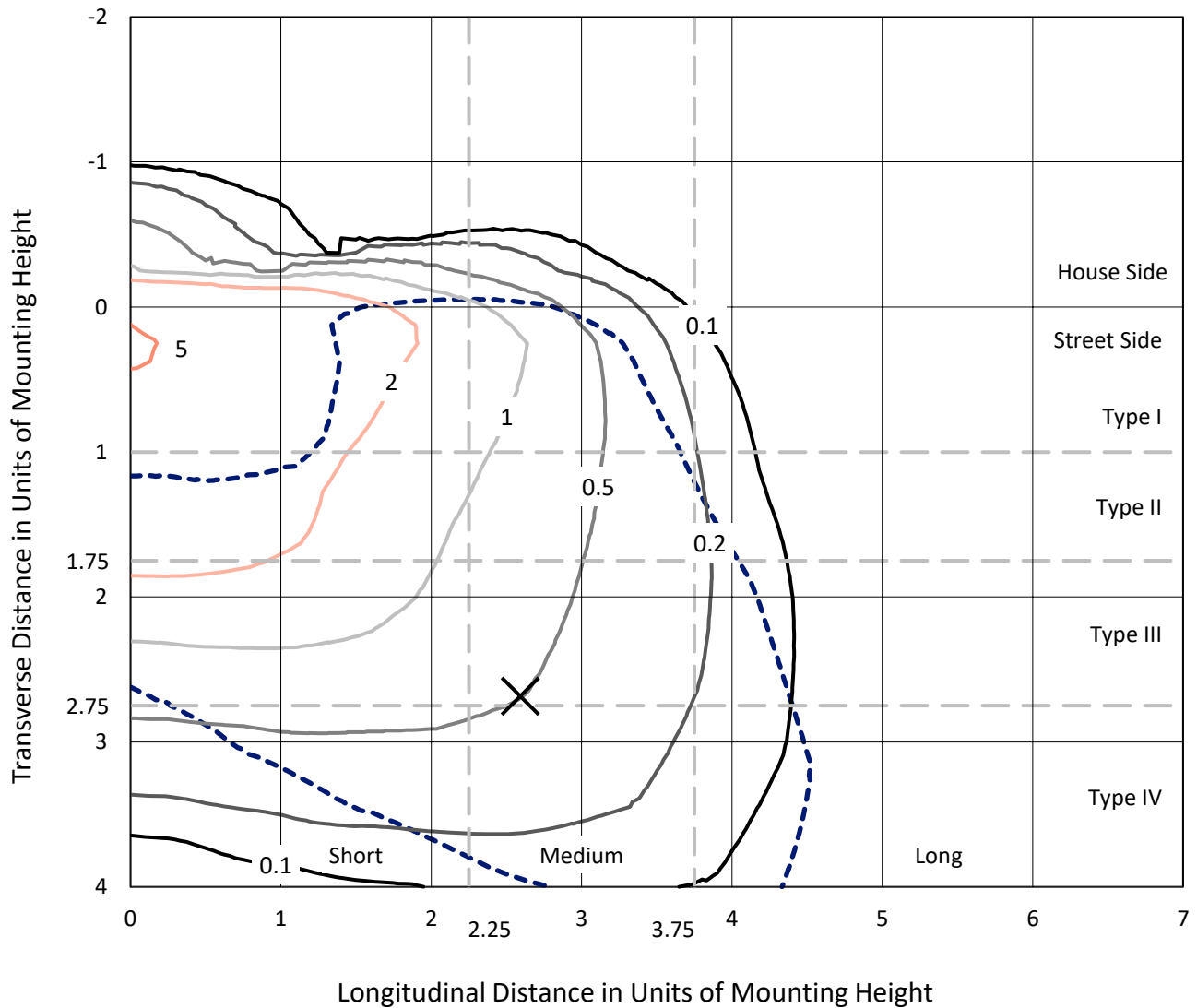
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

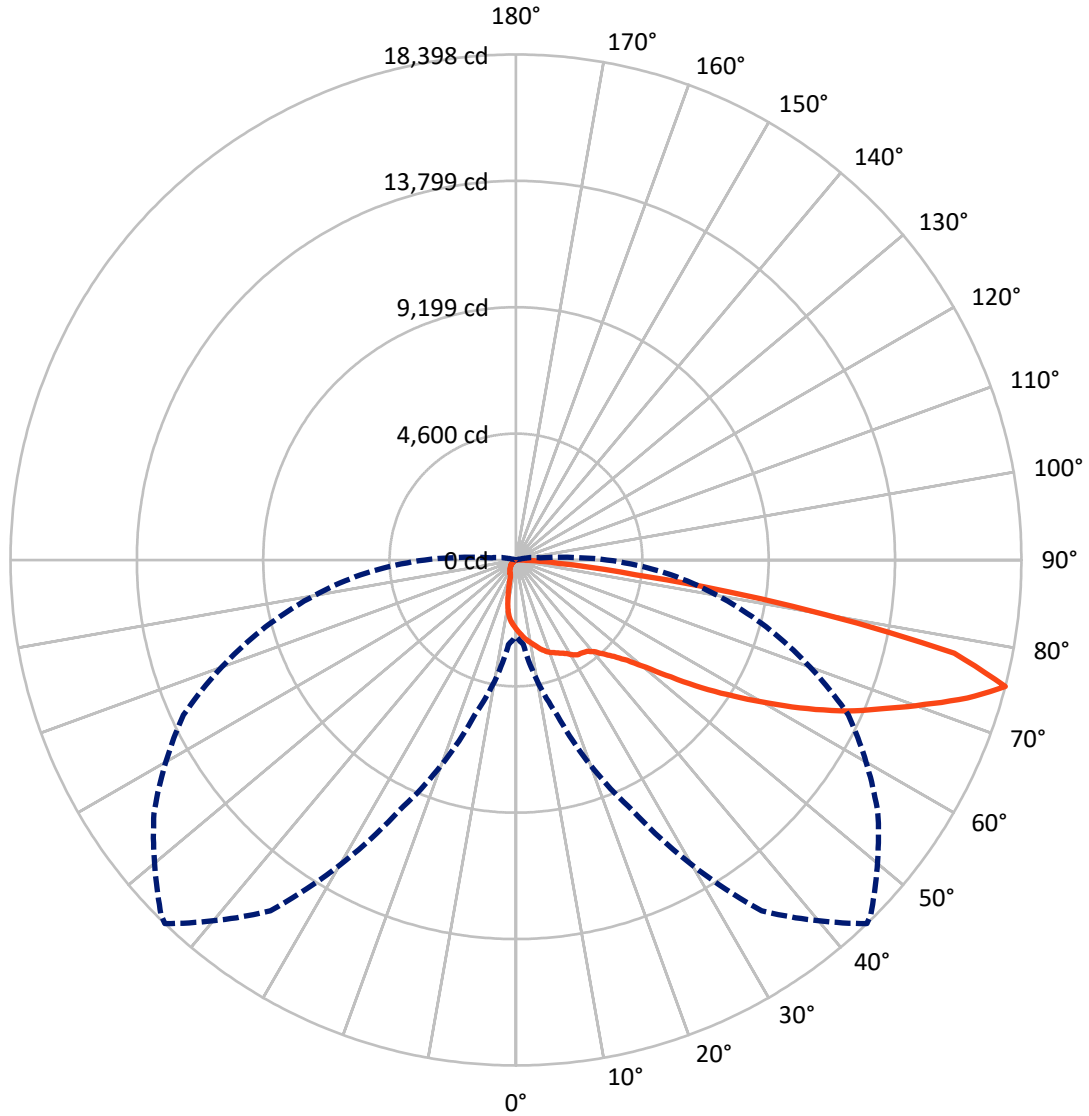
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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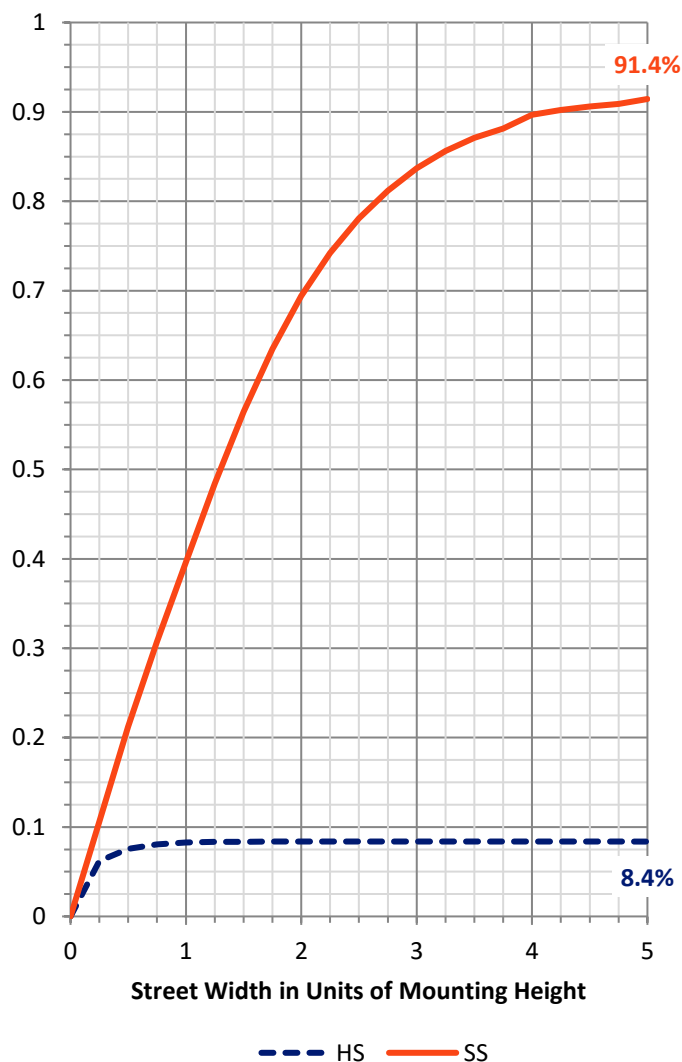
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1954.1	0.0	1954.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	21216.9	0.0	21216.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	23171.0	0.0	23171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	1.0
10°-20°	666.5	2.9
20°-30°	1099.9	4.7
30°-40°	1596.4	6.9
40°-50°	2595.0	11.2
50°-60°	4574.7	19.7
60°-70°	6574.8	28.4
70°-80°	5264.9	22.7
80°-90°	560.9	2.4
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°	23171.0	100.0
0°-180°	23171.0	100.0

Coefficient of Utilization



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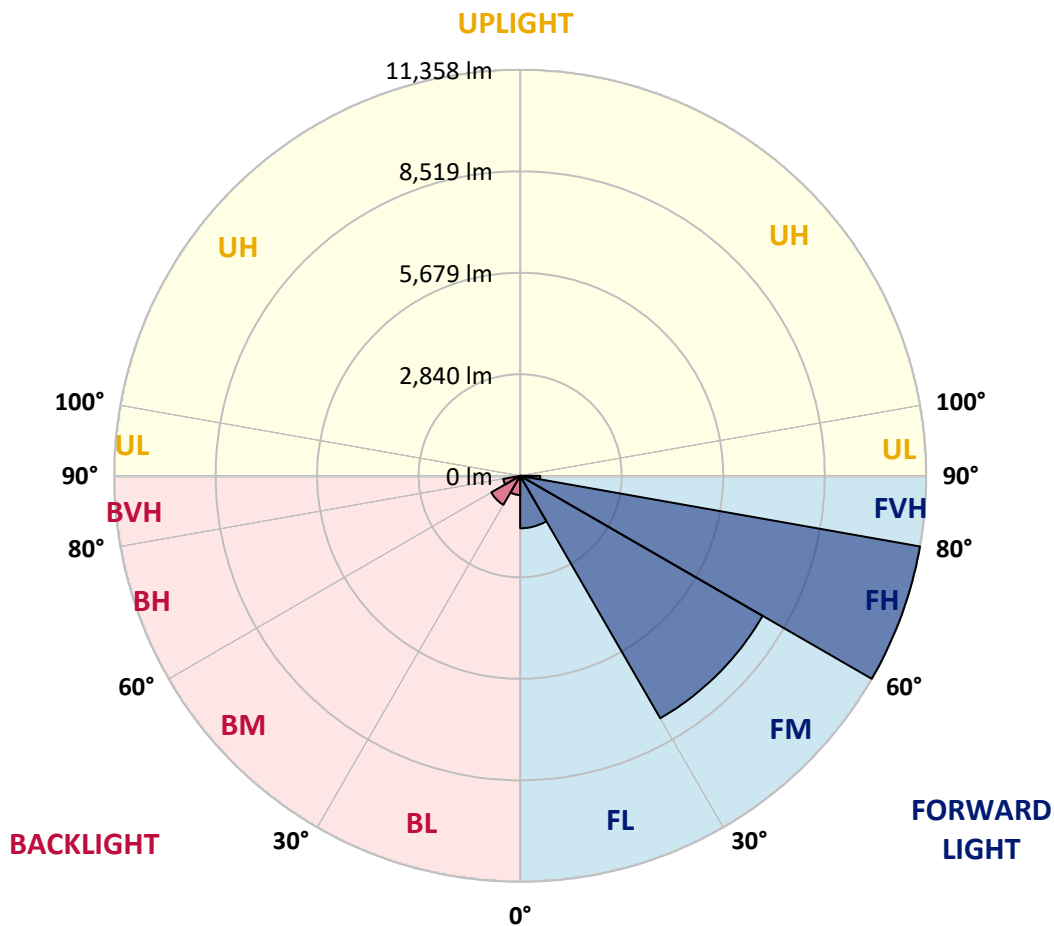
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1467.4	6.3			
FM (30°-60°)	7832.0	33.8			
FH (60°-80°)	11358.0	49.0			G4/12000
FVH (80°-90°)	559.5	2.4			G4/750
BL (0°-30°)	536.9	2.3	B2/1000		
BM (30°-60°)	934.1	4.0	B1/1000		
BH (60°-80°)	481.7	2.1	B1/500		G1/500
BVH (80°-90°)	1.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1
2.5°	2748.6	2744.4	2731.5	2710.2	2688.8	2667.4	2663.1	2628.9	2590.5	2560.5	2534.9
5°	2992.3	2988.0	2966.6	2919.6	2872.6	2817.0	2812.8	2731.5	2658.9	2577.6	2509.3
7.5°	3244.5	3236.0	3197.5	3124.8	3043.6	2958.1	2949.5	2829.9	2723.0	2616.1	2517.8
10°	3441.1	3432.6	3377.0	3291.5	3180.4	3073.5	3060.7	2936.7	2829.9	2693.1	2560.5
12.5°	3633.5	3616.4	3543.7	3449.7	3312.9	3210.3	3197.5	3069.2	2941.0	2799.9	2637.5
15°	3813.0	3791.7	3723.3	3603.6	3458.2	3359.9	3351.4	3214.6	3082.1	2919.6	2740.1
17.5°	3937.0	3928.5	3847.2	3714.7	3573.7	3492.4	3483.9	3342.8	3210.3	3039.3	2847.0
20°	4001.1	4001.1	3924.2	3778.8	3650.6	3595.0	3582.2	3449.7	3321.4	3159.0	2958.1
22.5°	4013.9	4026.8	3966.9	3808.8	3714.7	3667.7	3659.1	3543.7	3419.8	3270.1	3082.1
25°	4039.6	4039.6	4009.7	3838.7	3770.3	3757.5	3753.2	3650.6	3539.5	3389.8	3206.0
27.5°	4069.5	4069.5	4048.1	3881.4	3855.8	3851.5	3847.2	3800.2	3710.4	3535.2	3351.4
30°	4146.5	4150.7	4133.6	3966.9	3949.8	3996.8	4005.4	3979.7	3868.6	3650.6	3501.0
32.5°	4338.8	4300.4	4253.3	4026.8	4056.7	4116.5	4120.8	4069.5	3949.8	3774.6	3680.5
35°	4821.9	4595.3	4381.6	4078.1	4090.9	4150.7	4159.3	4155.0	4082.3	3932.7	3885.7
37.5°	5270.7	4950.1	4646.6	4197.8	4155.0	4219.1	4236.2	4308.9	4253.3	4150.7	4163.6
40°	5531.5	5407.5	5193.8	4526.9	4283.3	4381.6	4398.7	4509.8	4488.4	4445.7	4526.9
42.5°	6335.1	6343.7	6112.8	5018.5	4518.4	4676.5	4697.9	4787.7	4817.6	4839.0	5035.6
45°	7267.0	7296.9	7241.3	5903.4	4962.9	5014.2	5044.2	5163.8	5275.0	5411.8	5770.9
47.5°	8387.0	8361.3	8156.1	6984.9	5736.7	5450.2	5471.6	5702.5	5894.8	6194.0	6707.0
50°	9378.7	9442.8	9053.8	7993.7	6826.7	6138.5	6117.1	6343.7	6689.9	7108.8	7754.3
52.5°	10379.0	10284.9	9759.1	8994.0	8117.7	7074.6	7010.5	7134.5	7621.8	8117.7	8780.2
55°	10644.0	10652.6	10473.0	10088.3	9194.9	8211.7	8104.8	8096.3	8703.3	9041.0	9857.5
57.5°	11165.5	11186.9	11229.6	11306.6	10883.4	9348.8	9237.6	9117.9	9707.9	9904.5	10939.0
60°	11695.6	11721.2	11982.0	12396.6	12114.5	10575.6	10455.9	10173.8	10502.9	10768.0	12076.0
62.5°	11627.2	11806.7	12563.4	13388.4	13354.2	11922.2	11772.5	11092.9	11302.3	11533.2	13119.1
65°	10498.7	10691.0	12392.4	13662.0	14598.1	13251.6	13007.9	12041.8	12054.7	12332.5	14123.6
67.5°	9489.8	9699.3	11323.7	13546.5	15418.9	14444.2	14192.0	12995.1	12794.2	13255.9	14662.2
70°	8908.5	9117.9	10473.0	13187.5	15649.7	15765.1	15547.1	14085.2	13674.8	14098.0	14059.5
72.5°	6972.0	7301.2	9387.3	12503.5	15897.6	17180.0	17009.0	15465.9	14422.9	13217.4	10703.9
75°	2778.6	3082.1	5860.6	10062.7	15585.6	18398.3	18265.8	16085.7	13349.9	9438.5	5480.2
77.5°	837.8	897.7	1628.7	4975.8	11426.3	16312.3	16269.5	13525.2	9447.1	4381.6	1496.1
80°	277.9	307.8	500.1	1372.2	5215.1	10190.9	10383.3	8617.8	4291.8	1004.6	303.5
82.5°	115.4	128.2	252.2	551.4	1846.7	4390.1	4326.0	3860.1	1496.1	624.1	111.1
85°	29.9	38.5	115.4	316.3	675.4	1513.2	1590.2	1295.2	846.4	517.2	34.2
87.5°	0.0	0.0	55.6	128.2	303.5	457.4	478.8	393.3	478.8	389.0	17.1
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°	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1	2522.1
2.5°	2513.5	2492.2	2453.7	2428.0	2393.8	2385.3	2368.2	2346.8	2342.5	2321.2	2325.4
5°	2470.8	2436.6	2368.2	2321.2	2265.6	2248.5	2218.6	2197.2	2180.1	2150.2	2154.5
7.5°	2462.2	2410.9	2316.9	2227.1	2137.4	2073.2	1983.5	1910.8	1850.9	1786.8	1799.7
10°	2492.2	2428.0	2295.5	2171.5	2009.1	1803.9	1568.8	1414.9	1338.0	1261.0	1269.6
12.5°	2552.0	2475.1	2304.1	2116.0	1786.8	1436.3	1111.4	902.0	846.4	812.2	816.5
15°	2641.8	2547.7	2329.7	2009.1	1487.6	1038.8	739.5	649.8	671.1	684.0	684.0
17.5°	2735.8	2628.9	2351.1	1816.7	1149.9	726.7	602.7	594.2	624.1	654.0	654.0
20°	2851.2	2714.4	2355.4	1573.1	829.3	589.9	568.5	568.5	589.9	624.1	624.1
22.5°	2962.4	2808.5	2316.9	1295.2	632.7	547.2	547.2	547.2	560.0	594.2	598.5
25°	3094.9	2923.9	2235.7	1000.3	542.9	521.5	521.5	525.8	534.3	564.3	568.5
27.5°	3236.0	3043.6	2098.9	731.0	495.9	491.6	495.9	500.1	504.4	534.3	542.9
30°	3398.4	3176.1	1923.6	547.2	453.1	453.1	465.9	474.5	474.5	500.1	508.7
32.5°	3586.5	3351.4	1714.2	453.1	410.4	406.1	427.5	440.3	440.3	461.7	470.2
35°	3821.6	3530.9	1461.9	401.8	376.2	367.6	376.2	397.5	406.1	423.2	427.5
37.5°	4133.6	3744.6	1192.6	371.9	350.5	333.4	333.4	337.7	354.8	371.9	376.2
40°	4531.2	3979.7	927.6	350.5	324.9	307.8	295.0	290.7	286.4	299.2	307.8
42.5°	5031.3	4244.8	692.5	329.2	303.5	277.9	260.8	243.7	222.3	218.0	222.3
45°	5672.5	4569.7	513.0	312.1	290.7	252.2	222.3	192.4	153.9	141.1	145.3
47.5°	6429.2	4907.4	401.8	295.0	282.1	222.3	183.8	132.5	94.0	85.5	89.8
50°	7232.8	5232.2	342.0	273.6	265.0	192.4	132.5	81.2	55.6	55.6	59.8
52.5°	7916.8	5416.1	312.1	256.5	239.4	158.2	85.5	47.0	34.2	34.2	38.5
55°	8579.3	5514.4	290.7	239.4	205.2	111.1	47.0	29.9	21.4	21.4	21.4
57.5°	9263.3	5557.1	265.0	218.0	162.4	68.4	25.6	17.1	12.8	12.8	12.8
60°	9870.3	5475.9	226.6	179.5	106.9	34.2	12.8	12.8	8.5	4.3	4.3
62.5°	10379.0	5322.0	158.2	128.2	64.1	17.1	8.5	4.3	0.0	0.0	0.0
65°	10691.0	5074.1	102.6	85.5	38.5	12.8	4.3	0.0	0.0	0.0	0.0
67.5°	10601.3	4608.1	64.1	55.6	17.1	8.5	4.3	0.0	0.0	0.0	0.0
70°	9566.8	3778.8	47.0	34.2	12.8	4.3	0.0	0.0	0.0	0.0	0.0
72.5°	6895.1	2556.3	34.2	21.4	8.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	3317.2	910.5	21.4	17.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	812.2	200.9	12.8	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	179.5	38.5	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.8	17.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.4	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	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)