

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: P400218

Luminaire Tested: **ARCH-L-PA3-250-740-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400218
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-PA3-250-740-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1070mA 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: 26779 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

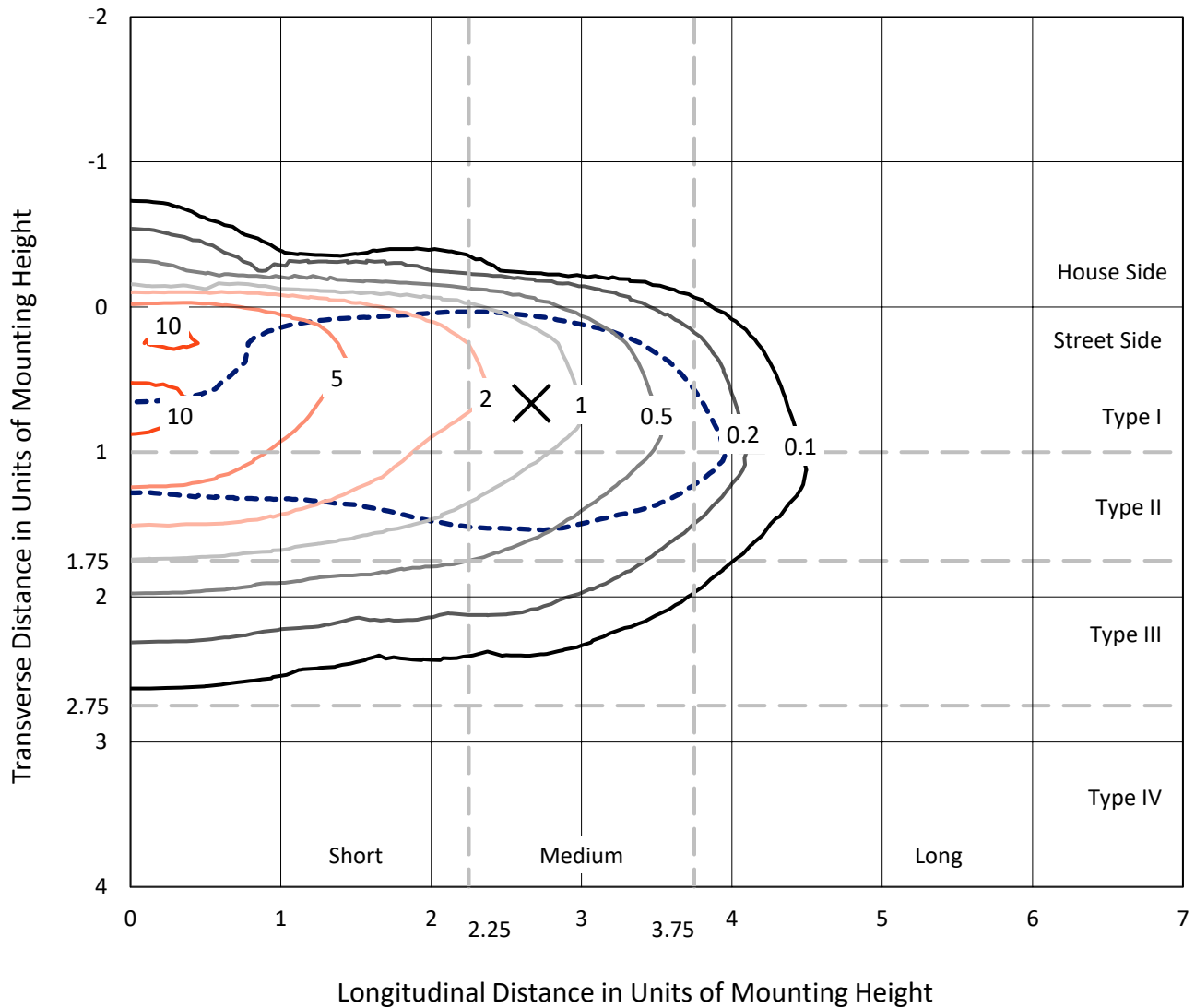
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

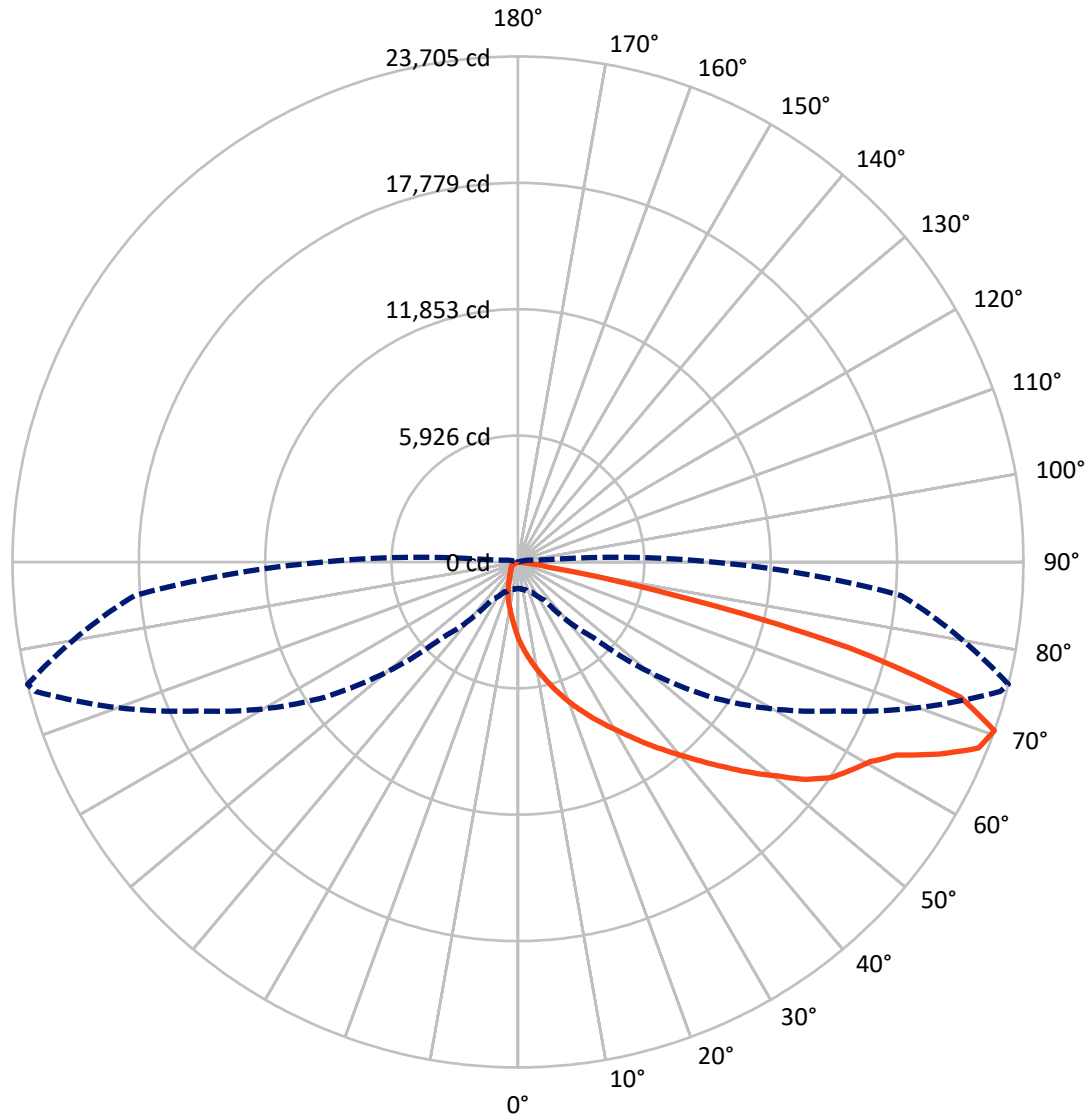
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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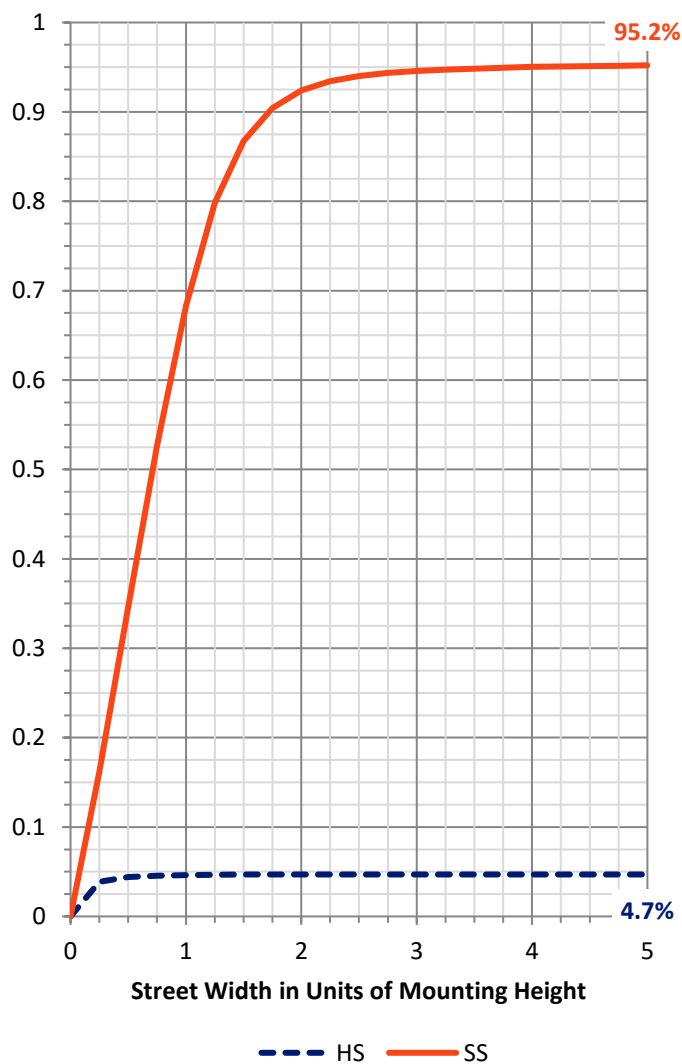
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1263.0	0.0	1263.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	25516.0	0.0	25516.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	26779.0	0.0	26779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.7	1.3
10°-20°	1089.9	4.1
20°-30°	2029.8	7.6
30°-40°	3590.2	13.4
40°-50°	5490.3	20.5
50°-60°	6224.7	23.2
60°-70°	5336.1	19.9
70°-80°	2584.5	9.7
80°-90°	95.9	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°	26779.0	100.0
0°-180°	26779.0	100.0

Coefficient of Utilization

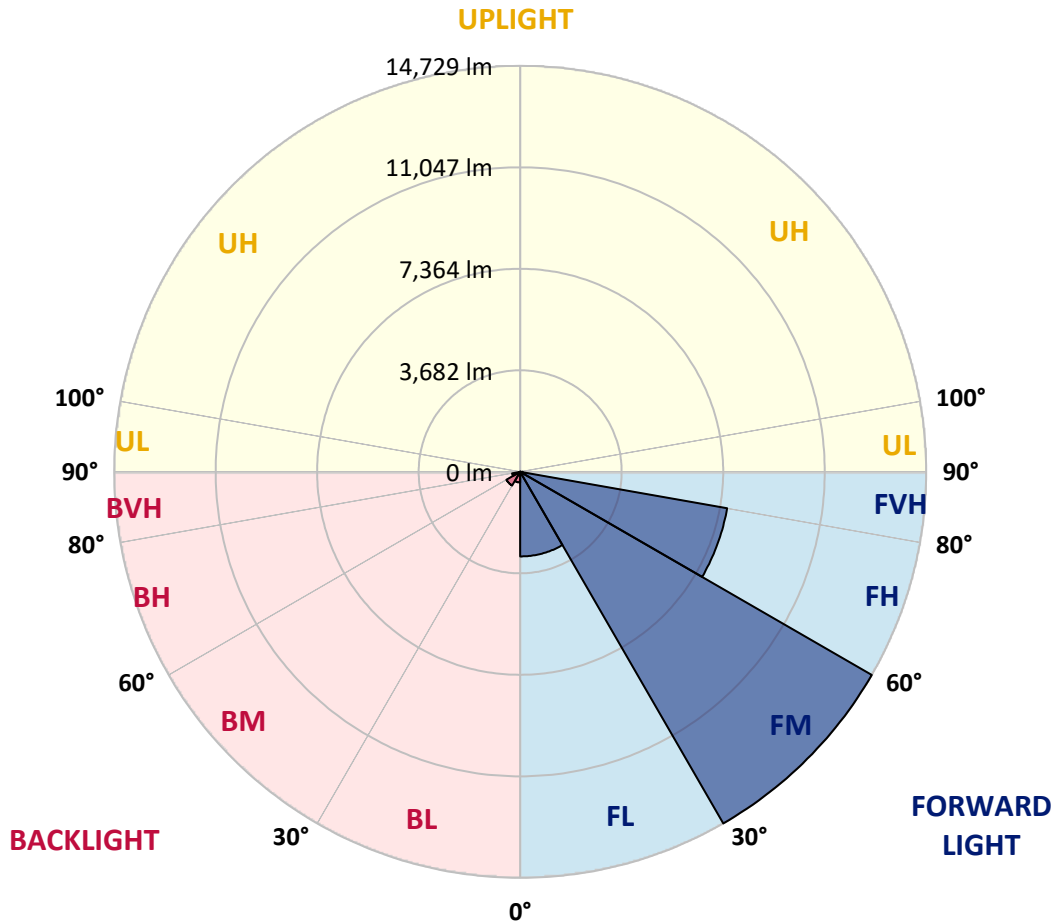


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3069.9	11.5			
FM (30°-60°)	14728.7	55.0			
FH (60°-80°)	7623.2	28.5			G4/12000
FVH (80°-90°)	94.2	0.4			G1/100
BL (0°-30°)	387.4	1.4	B1/500		
BM (30°-60°)	576.5	2.2	B1/1000		
BH (60°-80°)	297.4	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5
2.5°	4899.8	4873.0	4846.3	4743.7	4650.1	4565.4	4404.9	4195.3	4008.1	3968.0	3749.5
5°	5755.8	5724.6	5684.4	5581.9	5461.5	5318.9	5082.6	4761.6	4431.6	4360.3	3954.6
7.5°	6335.4	6308.6	6250.7	6201.6	6081.2	5943.0	5680.0	5305.5	4850.7	4761.6	4190.9
10°	6732.2	6714.3	6705.4	6665.3	6576.1	6464.7	6201.6	5809.3	5274.3	5171.7	4440.6
12.5°	6874.8	6874.8	6919.4	6986.3	6999.7	6964.0	6723.2	6330.9	5720.1	5613.1	4734.8
15°	6683.1	6705.4	6803.5	7017.5	7240.4	7387.5	7236.0	6870.4	6210.5	6094.6	5082.6
17.5°	6629.6	6651.9	6718.8	6906.0	7204.7	7597.1	7672.9	7392.0	6674.2	6576.1	5439.2
20°	6781.2	6803.5	6861.5	7022.0	7249.3	7646.1	7962.7	7895.8	7164.6	7062.1	5800.4
22.5°	7142.3	7155.7	7155.7	7280.5	7481.2	7775.4	8145.5	8372.8	7668.4	7557.0	6157.0
25°	7918.1	7891.3	7784.3	7721.9	7851.2	8092.0	8377.3	8791.9	8230.2	8078.6	6540.5
27.5°	8934.6	9023.8	8765.2	8466.5	8368.4	8506.6	8702.8	9162.0	8774.1	8613.6	6888.2
30°	10312.2	10276.6	9937.7	9509.7	9086.2	9037.1	9104.0	9478.5	9318.0	9166.4	7276.1
32.5°	11444.7	11511.5	11154.9	10633.2	10000.2	9701.4	9630.1	9857.5	9897.6	9799.5	7735.3
35°	12608.3	12679.6	12331.9	11752.3	10998.8	10499.5	10294.4	10325.6	10615.4	10490.6	8216.8
37.5°	13651.6	13714.0	13370.7	12777.7	12024.3	11413.5	11119.2	10878.5	11310.9	11199.5	8725.1
40°	14445.2	14454.1	14222.2	13691.7	12978.4	12345.3	12010.9	11538.3	12046.6	11970.8	9255.6
42.5°	15006.9	15024.8	14855.3	14400.6	13740.7	13152.2	12880.3	12318.5	12893.6	12826.8	9870.9
45°	15270.0	15301.2	15283.3	14864.3	14315.9	13807.6	13718.4	13147.8	13821.0	13758.6	10579.7
47.5°	15020.3	15020.3	15247.7	15189.7	14685.9	14347.1	14449.6	14012.7	14828.6	14770.6	11302.0
50°	13981.5	13994.9	14458.5	15122.8	14828.6	14752.8	15073.8	14859.8	15742.6	15778.2	12166.9
52.5°	11253.0	11230.7	12795.6	14070.7	14730.5	14935.6	15648.9	15724.7	16839.3	16946.3	13027.4
55°	8408.5	8395.1	9893.2	12207.1	14043.9	14842.0	15969.9	16496.0	17775.6	17842.5	13669.4
57.5°	6656.4	6620.7	7445.5	9839.7	12492.4	14422.9	15983.3	16643.1	18297.2	18413.1	14293.6
60°	5118.2	5087.0	5702.3	7320.7	10294.4	13308.3	15599.9	16652.1	18801.0	19006.1	15131.8
62.5°	3660.3	3696.0	4168.6	5252.0	7918.1	11734.5	15100.5	16776.9	19697.1	19929.0	16322.1
65°	2469.9	2452.1	2844.4	3575.6	5630.9	9616.7	14333.7	17039.9	21311.1	21716.8	17748.8
67.5°	1716.5	1729.9	1908.2	2327.3	3575.6	7383.1	13058.6	17187.1	22978.5	23295.1	18747.5
70°	1239.4	1257.3	1355.3	1564.9	2184.6	5006.8	11039.0	16513.9	23428.8	23705.2	18052.0
72.5°	815.9	851.6	998.7	1110.1	1395.5	3134.2	8132.1	14226.7	21489.4	21694.5	15145.1
75°	441.4	450.3	642.0	829.3	994.2	1952.8	4850.7	9594.4	16076.9	16010.1	9986.8
77.5°	343.3	356.7	396.8	593.0	668.8	1074.5	1917.1	4333.5	7614.9	7409.8	3406.2
80°	209.5	218.5	276.4	352.2	468.1	624.2	561.8	1177.0	1547.1	1449.0	499.3
82.5°	124.8	133.8	165.0	294.3	370.0	294.3	196.2	285.3	289.8	285.3	124.8
85°	22.3	22.3	115.9	205.1	196.2	84.7	115.9	93.6	84.7	89.2	26.8
87.5°	0.0	0.0	44.6	62.4	89.2	31.2	44.6	22.3	22.3	22.3	13.4
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°	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5
2.5°	3615.7	3464.2	3152.1	2880.1	2608.2	2407.5	2255.9	2099.9	2046.4	1979.5	1943.9
5°	3678.2	3379.5	2759.7	2264.9	1845.8	1524.8	1319.7	1194.8	1114.6	1056.6	1043.3
7.5°	3771.8	3312.6	2443.2	1774.4	1315.2	994.2	824.8	740.1	695.5	668.8	659.8
10°	3883.3	3254.6	2131.1	1382.1	927.3	700.0	606.3	570.7	552.8	543.9	539.5
12.5°	4039.3	3232.3	1868.1	1065.6	700.0	575.1	526.1	503.8	490.4	477.0	472.6
15°	4244.4	3241.2	1627.3	824.8	579.6	512.7	472.6	450.3	432.5	419.1	419.1
17.5°	4458.4	3254.6	1391.0	668.8	526.1	468.1	423.5	392.3	379.0	365.6	361.1
20°	4659.0	3250.2	1163.6	570.7	477.0	419.1	374.5	343.3	321.0	307.6	307.6
22.5°	4850.7	3223.4	949.6	512.7	436.9	370.0	321.0	289.8	272.0	258.6	258.6
25°	5055.8	3169.9	775.8	468.1	387.9	325.5	276.4	245.2	231.8	218.5	218.5
27.5°	5216.3	3080.7	633.1	428.0	343.3	280.9	236.3	209.5	196.2	187.3	187.3
30°	5390.2	2951.5	526.1	383.4	298.7	240.8	200.6	178.3	165.0	160.5	160.5
32.5°	5581.9	2808.8	450.3	338.8	254.1	205.1	169.4	156.0	142.7	138.2	138.2
35°	5804.8	2683.9	405.7	294.3	222.9	173.9	147.1	133.8	124.8	124.8	124.8
37.5°	6058.9	2554.7	365.6	258.6	191.7	147.1	124.8	120.4	115.9	111.5	111.5
40°	6335.4	2416.4	329.9	227.4	165.0	124.8	107.0	107.0	102.5	102.5	102.5
42.5°	6647.5	2296.1	298.7	200.6	142.7	107.0	93.6	93.6	89.2	89.2	89.2
45°	6986.3	2184.6	272.0	178.3	124.8	93.6	84.7	80.3	75.8	75.8	75.8
47.5°	7387.5	2122.2	249.7	156.0	107.0	80.3	71.3	66.9	62.4	58.0	58.0
50°	7900.3	2148.9	227.4	129.3	93.6	66.9	58.0	53.5	49.0	44.6	44.6
52.5°	8306.0	2135.6	196.2	111.5	75.8	53.5	44.6	40.1	35.7	31.2	31.2
55°	8600.2	2082.1	169.4	93.6	58.0	44.6	35.7	26.8	22.3	22.3	22.3
57.5°	8890.0	2028.6	142.7	75.8	44.6	31.2	22.3	17.8	17.8	17.8	17.8
60°	9340.3	1952.8	124.8	62.4	35.7	22.3	13.4	13.4	8.9	8.9	8.9
62.5°	9888.7	1859.1	102.5	53.5	26.8	17.8	8.9	8.9	0.0	0.0	0.0
65°	10490.6	1694.2	84.7	40.1	22.3	13.4	8.9	0.0	0.0	0.0	0.0
67.5°	10352.4	1359.8	71.3	26.8	17.8	8.9	4.5	0.0	0.0	0.0	0.0
70°	9157.5	918.4	58.0	22.3	13.4	8.9	4.5	0.0	0.0	0.0	0.0
72.5°	7173.5	543.9	40.1	17.8	8.9	4.5	0.0	0.0	0.0	0.0	0.0
75°	4592.1	272.0	26.8	13.4	8.9	4.5	0.0	0.0	0.0	0.0	0.0
77.5°	1538.1	133.8	17.8	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	218.5	44.6	8.9	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.0	17.8	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.8	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	4.5	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)