

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: P399777

Luminaire Tested: **ARCH-L-PA3-190-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399777
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-PA3-190-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 810mA 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: 20113 lumens
Efficiency: N/A
Efficacy: 106.4 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

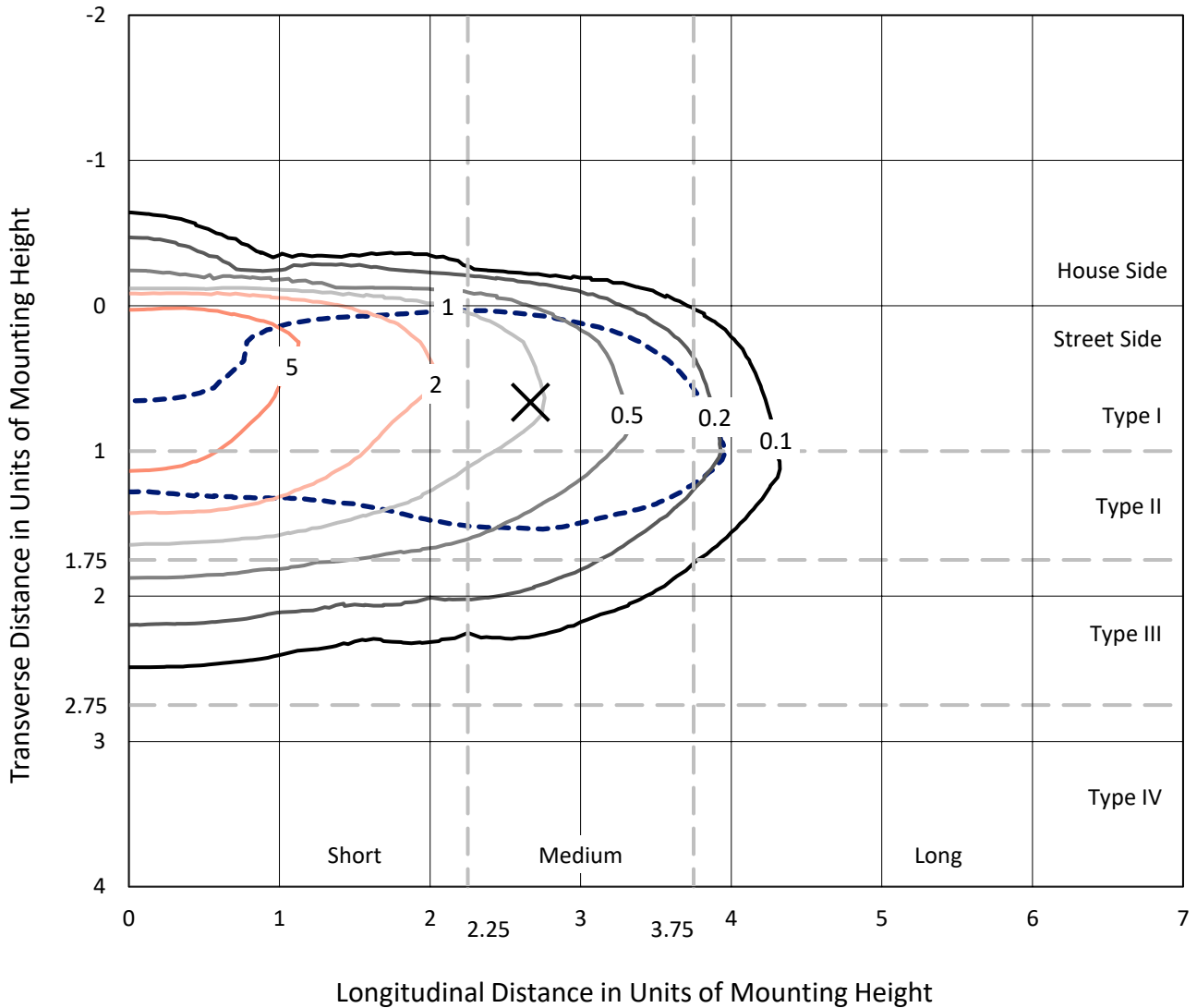
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

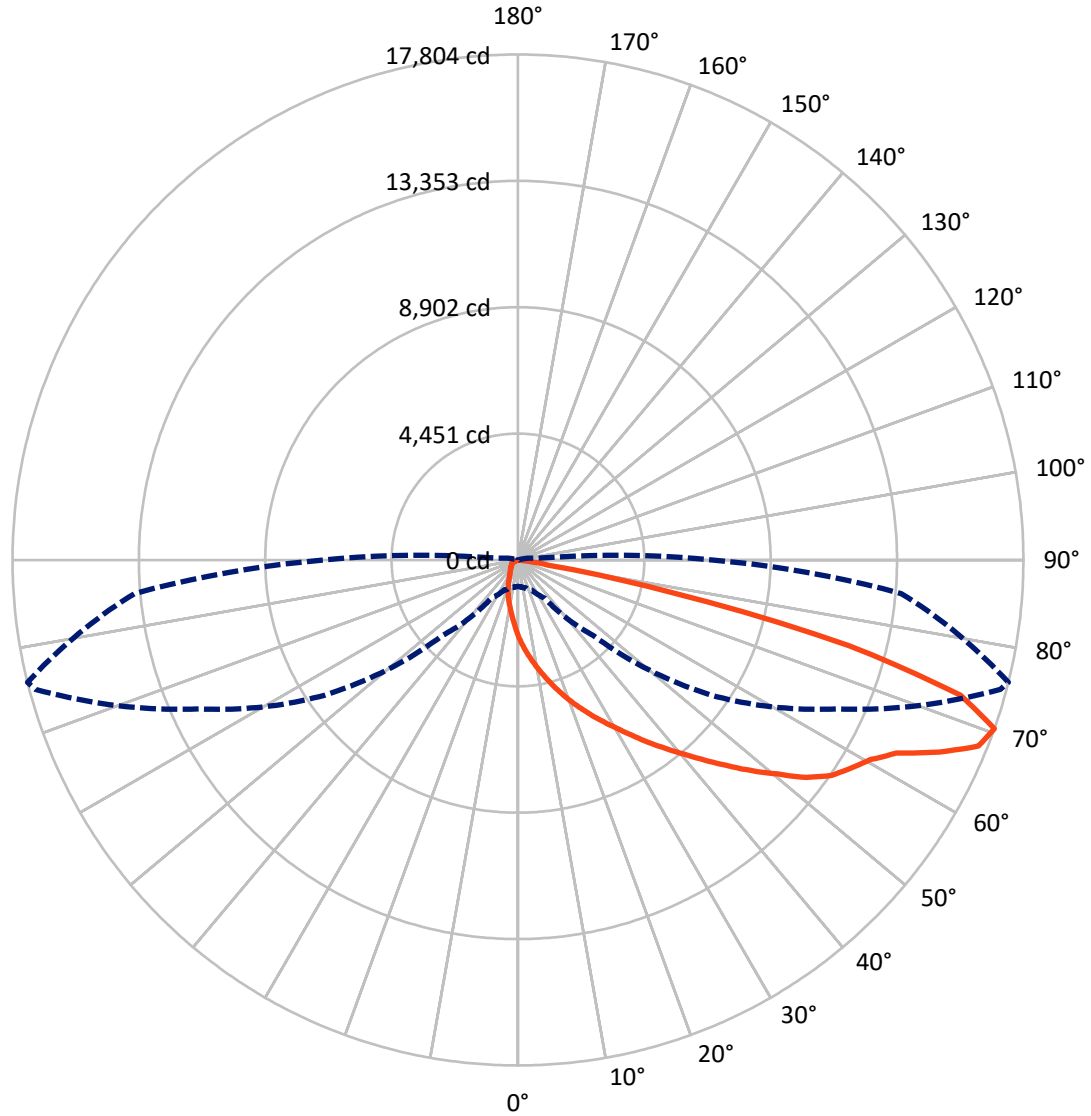
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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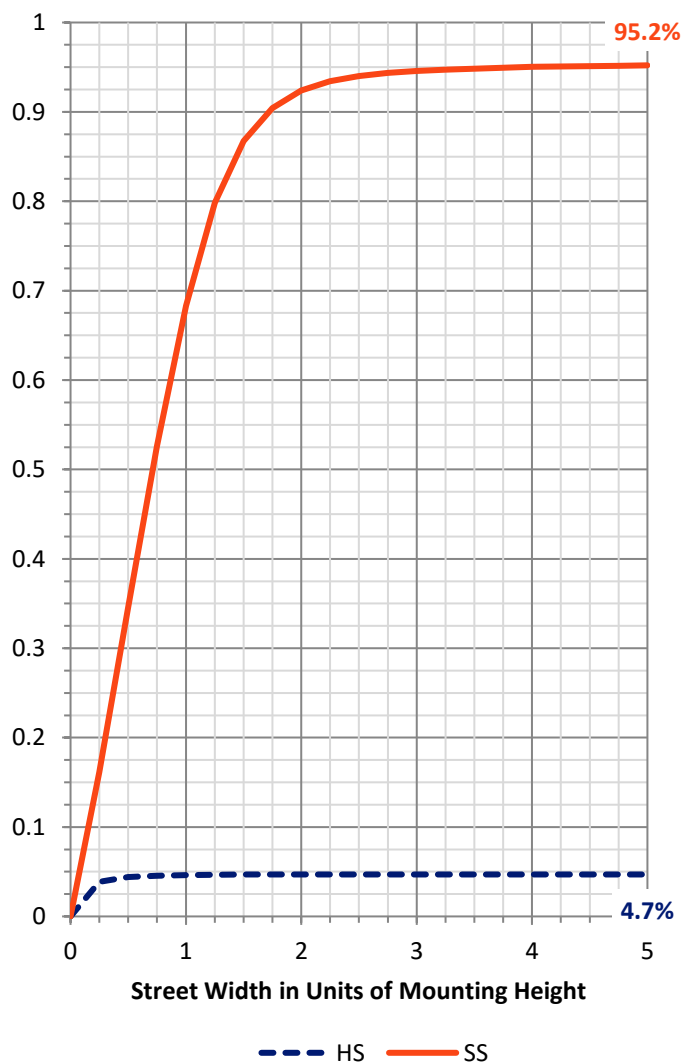
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	948.6	0.0	948.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	19164.4	0.0	19164.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	20113.0	0.0	20113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	1.3
10°-20°	818.6	4.1
20°-30°	1524.5	7.6
30°-40°	2696.5	13.4
40°-50°	4123.6	20.5
50°-60°	4675.2	23.2
60°-70°	4007.8	19.9
70°-80°	1941.1	9.7
80°-90°	72.0	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°	20113.0	100.0
0°-180°	20113.0	100.0

Coefficient of Utilization



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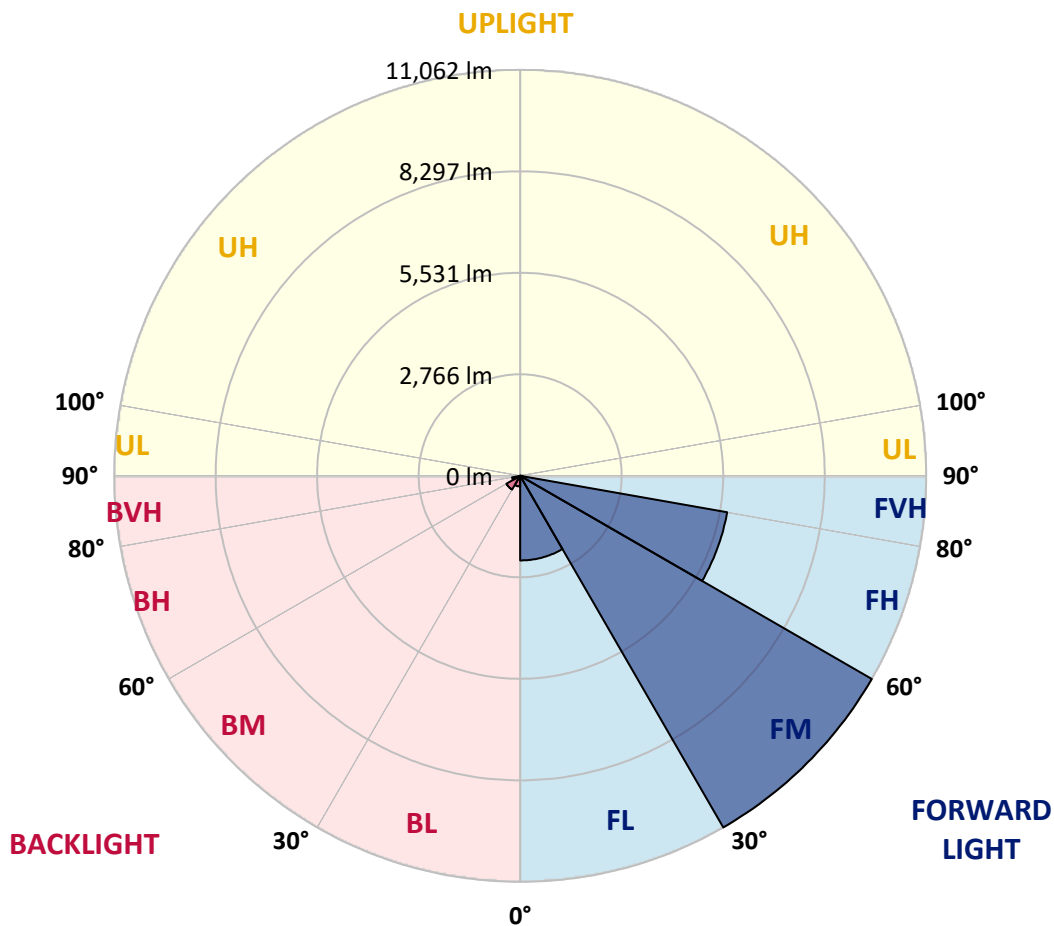
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2305.7	11.5			
FM (30°-60°)	11062.3	55.0			
FH (60°-80°)	5725.6	28.5			G3/7500
FVH (80°-90°)	70.8	0.4			G1/100
BL (0°-30°)	291.0	1.4	B1/500		
BM (30°-60°)	433.0	2.2	B1/1000		
BH (60°-80°)	223.4	1.1	B1/500		G1/500
BVH (80°-90°)	1.2	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°	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3
2.5°	3680.1	3660.0	3639.9	3562.9	3492.6	3428.9	3308.4	3151.0	3010.4	2980.2	2816.2
5°	4323.0	4299.6	4269.4	4192.4	4102.0	3994.8	3817.4	3576.3	3328.5	3274.9	2970.2
7.5°	4758.3	4738.2	4694.7	4657.9	4567.5	4463.7	4266.1	3984.8	3643.2	3576.3	3147.7
10°	5056.3	5043.0	5036.3	5006.1	4939.1	4855.4	4657.9	4363.2	3961.4	3884.3	3335.2
12.5°	5163.5	5163.5	5197.0	5247.2	5257.3	5230.5	5049.7	4755.0	4296.2	4215.9	3556.2
15°	5019.5	5036.3	5109.9	5270.7	5438.1	5548.6	5434.7	5160.2	4664.6	4577.5	3817.4
17.5°	4979.3	4996.1	5046.3	5186.9	5411.3	5706.0	5762.9	5551.9	5012.8	4939.1	4085.3
20°	5093.2	5109.9	5153.5	5274.0	5444.8	5742.8	5980.6	5930.3	5381.2	5304.1	4356.5
22.5°	5364.4	5374.5	5374.5	5468.2	5618.9	5839.9	6117.8	6288.6	5759.5	5675.8	4624.4
25°	5947.1	5927.0	5846.6	5799.7	5896.8	6077.7	6292.0	6603.4	6181.5	6067.6	4912.4
27.5°	6710.5	6777.5	6583.3	6358.9	6285.3	6389.1	6536.4	6881.3	6590.0	6469.4	5173.5
30°	7745.3	7718.5	7464.0	7142.5	6824.4	6787.6	6837.8	7119.1	6998.5	6884.7	5464.9
32.5°	8595.8	8646.0	8378.1	7986.4	7510.9	7286.5	7232.9	7403.7	7433.8	7360.2	5809.8
35°	9469.8	9523.3	9262.2	8826.8	8260.9	7885.9	7731.9	7755.3	7973.0	7879.2	6171.4
37.5°	10253.3	10300.2	10042.4	9597.0	9031.1	8572.4	8351.3	8170.5	8495.3	8411.6	6553.2
40°	10849.4	10856.1	10682.0	10283.5	9747.7	9272.2	9021.1	8666.1	9047.8	8990.9	6951.6
42.5°	11271.3	11284.7	11157.5	10815.9	10320.3	9878.3	9674.0	9252.1	9684.1	9633.8	7413.7
45°	11468.9	11492.3	11478.9	11164.1	10752.3	10370.5	10303.6	9874.9	10380.6	10333.7	7946.2
47.5°	11281.3	11281.3	11452.1	11408.6	11030.2	10775.7	10852.7	10524.6	11137.4	11093.8	8488.6
50°	10501.1	10511.2	10859.4	11358.4	11137.4	11080.4	11321.5	11160.8	11823.8	11850.6	9138.3
52.5°	8451.8	8435.1	9610.4	10568.1	11063.7	11217.7	11753.5	11810.4	12647.6	12727.9	9784.5
55°	6315.4	6305.4	7430.5	9168.4	10548.0	11147.4	11994.6	12389.7	13350.8	13401.0	10266.7
57.5°	4999.4	4972.6	5592.1	7390.3	9382.7	10832.6	12004.6	12500.2	13742.6	13829.6	10735.5
60°	3844.2	3820.7	4282.8	5498.4	7731.9	9995.5	11716.7	12506.9	14120.9	14275.0	11365.1
62.5°	2749.2	2776.0	3130.9	3944.6	5947.1	8813.4	11341.6	12600.7	14794.0	14968.1	12259.1
65°	1855.1	1841.7	2136.4	2685.6	4229.3	7222.9	10765.7	12798.3	16006.2	16310.9	13330.7
67.5°	1289.2	1299.2	1433.2	1748.0	2685.6	5545.2	9808.0	12908.8	17258.6	17496.3	14080.8
70°	930.9	944.3	1018.0	1175.3	1640.8	3760.4	8291.1	12403.1	17596.8	17804.4	13558.4
72.5°	612.8	639.6	750.1	833.8	1048.1	2354.0	6107.8	10685.3	16140.1	16294.2	11375.1
75°	331.5	338.2	482.2	622.8	746.7	1466.7	3643.2	7206.1	12075.0	12024.7	7500.8
77.5°	257.8	267.9	298.0	445.4	502.3	807.0	1439.9	3254.8	5719.4	5565.3	2558.3
80°	157.4	164.1	207.6	264.5	351.6	468.8	421.9	884.0	1162.0	1088.3	375.0
82.5°	93.8	100.5	123.9	221.0	277.9	221.0	147.3	214.3	217.7	214.3	93.8
85°	16.7	16.7	87.1	154.0	147.3	63.6	87.1	70.3	63.6	67.0	20.1
87.5°	0.0	0.0	33.5	46.9	67.0	23.4	33.5	16.7	16.7	16.7	10.0
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°	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3
2.5°	2715.7	2601.8	2367.4	2163.2	1958.9	1808.2	1694.4	1577.2	1537.0	1486.8	1460.0
5°	2762.6	2538.2	2072.8	1701.1	1386.3	1145.2	991.2	897.4	837.1	793.6	783.6
7.5°	2832.9	2488.0	1835.0	1332.7	987.8	746.7	619.5	555.9	522.4	502.3	495.6
10°	2916.6	2444.5	1600.6	1038.1	696.5	525.7	455.4	428.6	415.2	408.5	405.2
12.5°	3033.8	2427.7	1403.1	800.3	525.7	432.0	395.1	378.4	368.3	358.3	354.9
15°	3187.8	2434.4	1222.2	619.5	435.3	385.1	354.9	338.2	324.8	314.8	314.8
17.5°	3348.6	2444.5	1044.8	502.3	395.1	351.6	318.1	294.7	284.6	274.6	271.2
20°	3499.3	2441.1	874.0	428.6	358.3	314.8	281.3	257.8	241.1	231.1	231.1
22.5°	3643.2	2421.0	713.2	385.1	328.2	277.9	241.1	217.7	204.3	194.2	194.2
25°	3797.3	2380.8	582.7	351.6	291.3	244.4	207.6	184.2	174.1	164.1	164.1
27.5°	3917.8	2313.9	475.5	321.5	257.8	211.0	177.5	157.4	147.3	140.6	140.6
30°	4048.4	2216.8	395.1	288.0	224.4	180.8	150.7	133.9	123.9	120.5	120.5
32.5°	4192.4	2109.6	338.2	254.5	190.9	154.0	127.2	117.2	107.2	103.8	103.8
35°	4359.8	2015.8	304.7	221.0	167.4	130.6	110.5	100.5	93.8	93.8	93.8
37.5°	4550.7	1918.7	274.6	194.2	144.0	110.5	93.8	90.4	87.1	83.7	83.7
40°	4758.3	1814.9	247.8	170.8	123.9	93.8	80.4	80.4	77.0	77.0	77.0
42.5°	4992.7	1724.5	224.4	150.7	107.2	80.4	70.3	70.3	67.0	67.0	67.0
45°	5247.2	1640.8	204.3	133.9	93.8	70.3	63.6	60.3	56.9	56.9	56.9
47.5°	5548.6	1593.9	187.5	117.2	80.4	60.3	53.6	50.2	46.9	43.5	43.5
50°	5933.7	1614.0	170.8	97.1	70.3	50.2	43.5	40.2	36.8	33.5	33.5
52.5°	6238.4	1604.0	147.3	83.7	56.9	40.2	33.5	30.1	26.8	23.4	23.4
55°	6459.4	1563.8	127.2	70.3	43.5	33.5	26.8	20.1	16.7	16.7	16.7
57.5°	6677.1	1523.6	107.2	56.9	33.5	23.4	16.7	13.4	13.4	13.4	13.4
60°	7015.3	1466.7	93.8	46.9	26.8	16.7	10.0	10.0	6.7	6.7	6.7
62.5°	7427.1	1396.4	77.0	40.2	20.1	13.4	6.7	6.7	0.0	0.0	0.0
65°	7879.2	1272.5	63.6	30.1	16.7	10.0	6.7	0.0	0.0	0.0	0.0
67.5°	7775.4	1021.3	53.6	20.1	13.4	6.7	3.3	0.0	0.0	0.0	0.0
70°	6878.0	689.8	43.5	16.7	10.0	6.7	3.3	0.0	0.0	0.0	0.0
72.5°	5387.9	408.5	30.1	13.4	6.7	3.3	0.0	0.0	0.0	0.0	0.0
75°	3449.0	204.3	20.1	10.0	6.7	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	1155.3	100.5	13.4	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	164.1	33.5	6.7	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.8	13.4	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.4	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	3.3	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)