

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: P399993

Luminaire Tested: **ARCH-L-PA3-220-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399993
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-PA3-220-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 945mA 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: 22495 lumens
Efficiency: N/A
Efficacy: 101.3 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

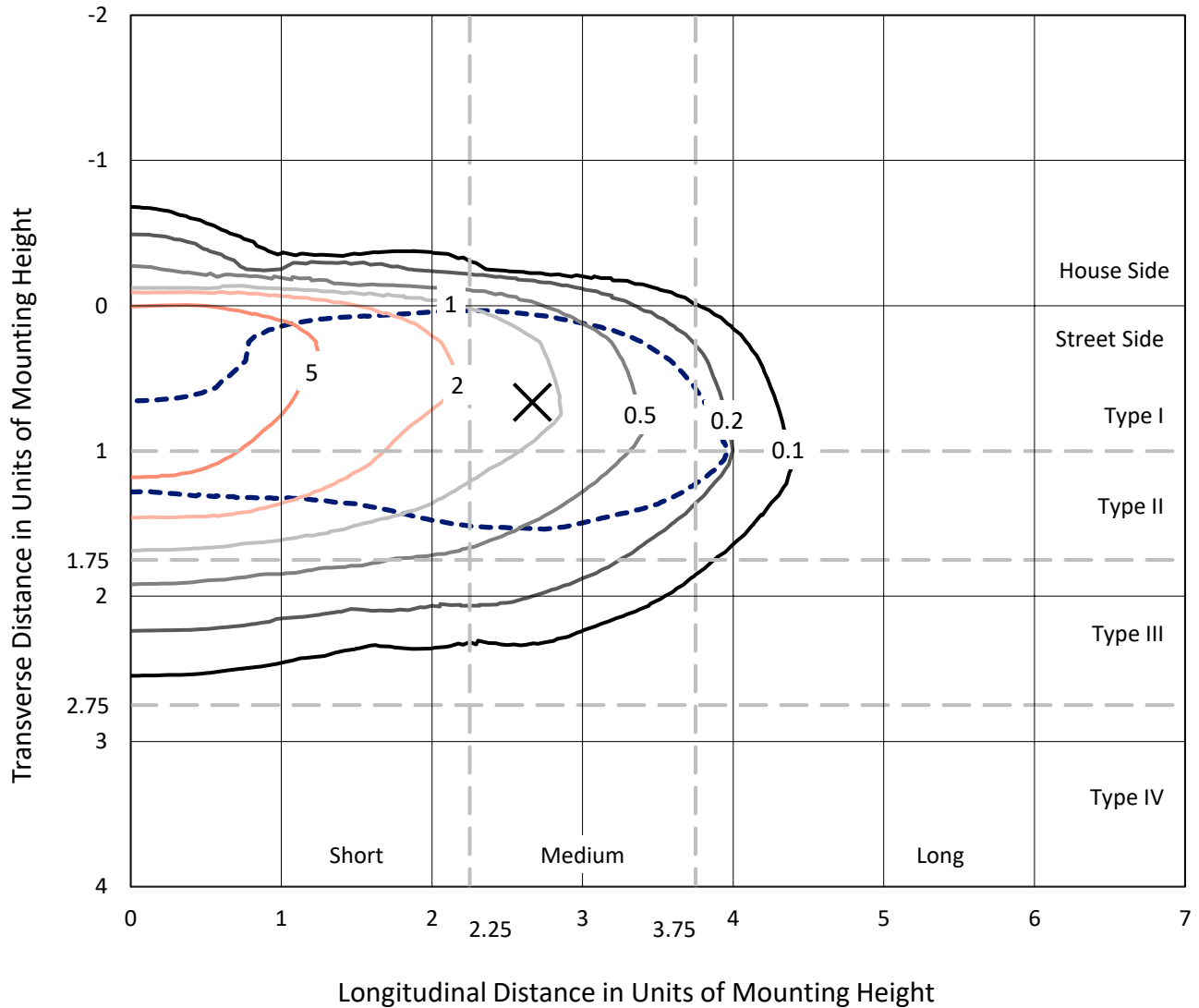
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

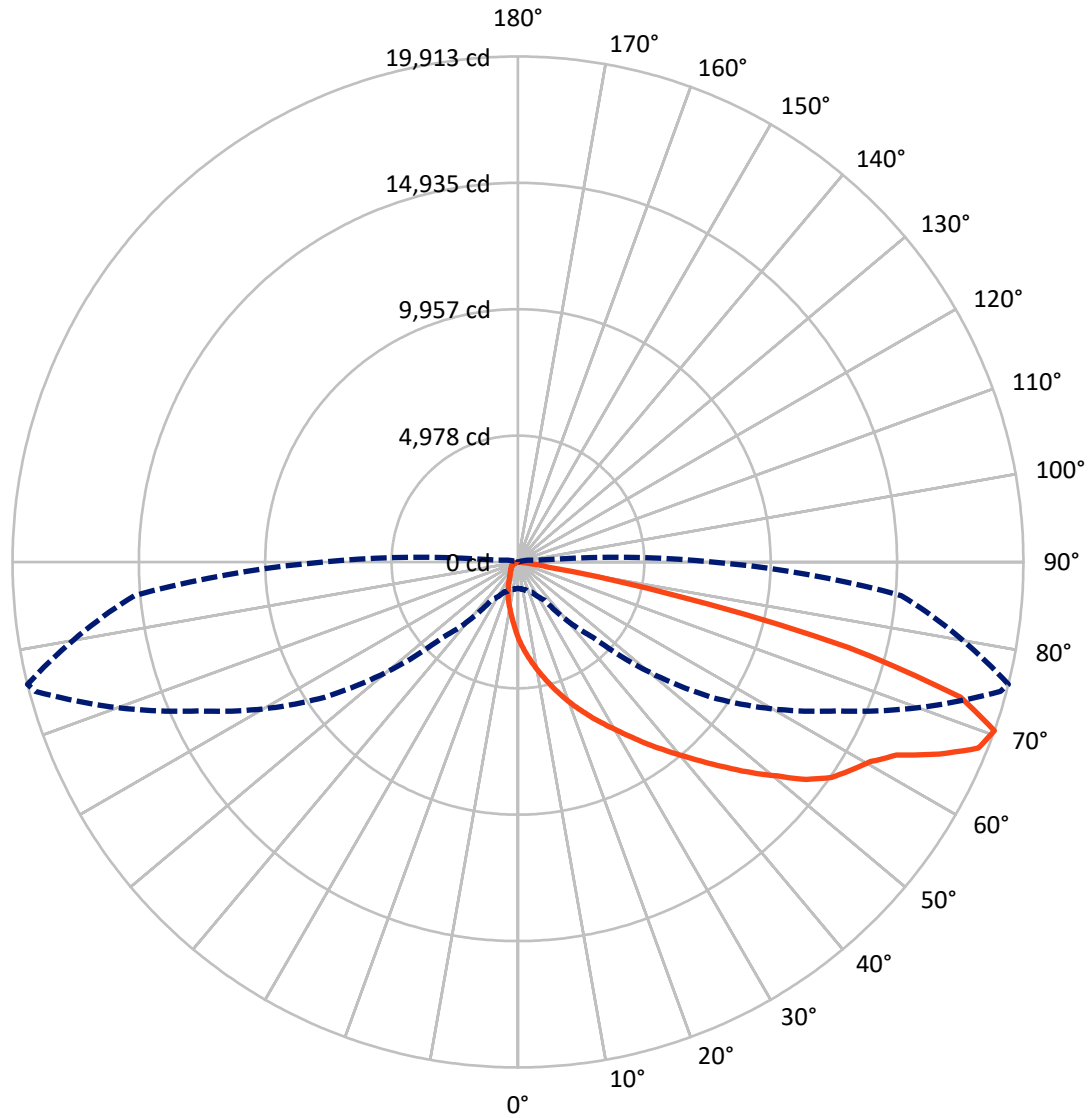
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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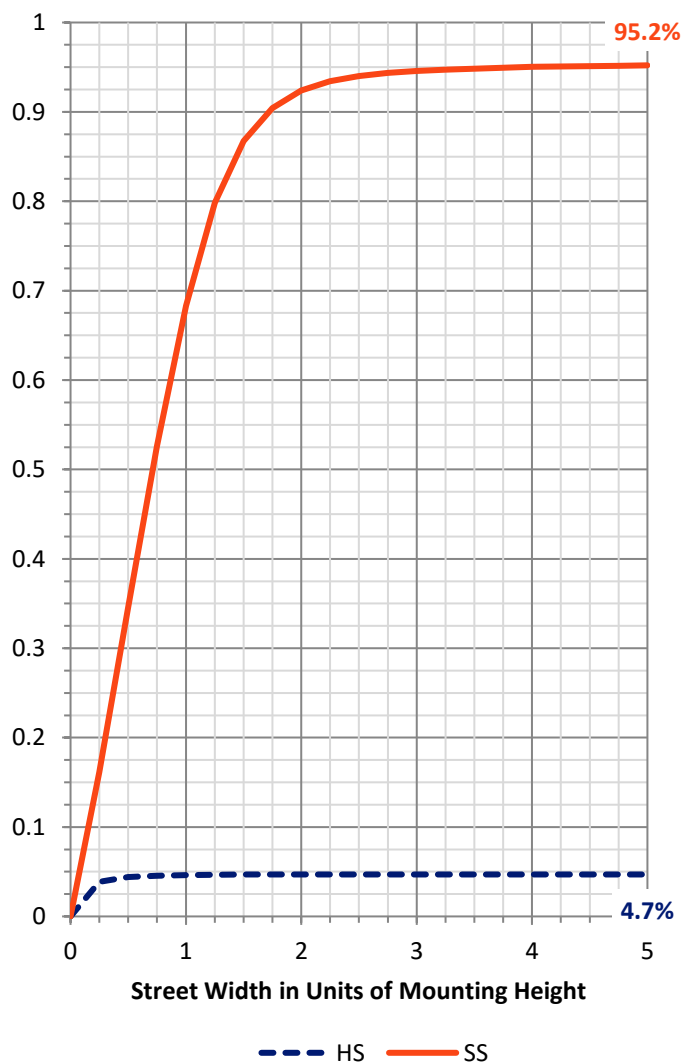
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1060.9	0.0	1060.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	21434.1	0.0	21434.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	22495.0	0.0	22495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	1.3
10°-20°	915.5	4.1
20°-30°	1705.1	7.6
30°-40°	3015.9	13.4
40°-50°	4612.0	20.5
50°-60°	5228.9	23.2
60°-70°	4482.4	19.9
70°-80°	2171.0	9.7
80°-90°	80.5	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°	22495.0	100.0
0°-180°	22495.0	100.0

Coefficient of Utilization

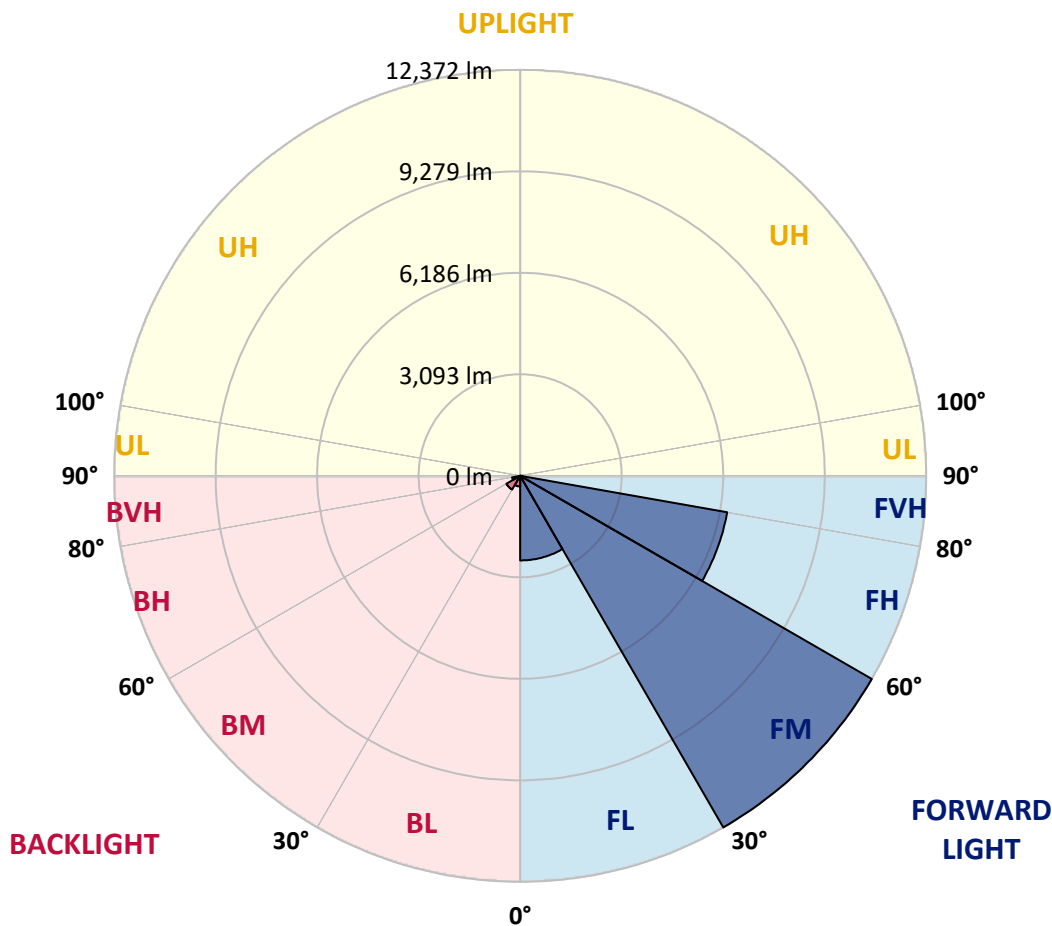


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2578.8	11.5			
FM (30°-60°)	12372.4	55.0			
FH (60°-80°)	6403.7	28.5			G3/7500
FVH (80°-90°)	79.2	0.4			G1/100
BL (0°-30°)	325.4	1.4	B1/500		
BM (30°-60°)	484.3	2.2	B1/1000		
BH (60°-80°)	249.8	1.1	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: 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°	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1
2.5°	4115.9	4093.4	4071.0	3984.8	3906.2	3835.0	3700.2	3524.2	3366.9	3333.2	3149.7
5°	4835.0	4808.8	4775.1	4688.9	4587.8	4468.0	4269.5	3999.8	3722.7	3662.8	3321.9
7.5°	5321.9	5299.4	5250.7	5209.5	5108.4	4992.3	4771.3	4456.7	4074.7	3999.8	3520.4
10°	5655.2	5640.2	5632.7	5599.0	5524.1	5430.5	5209.5	4879.9	4430.5	4344.4	3730.2
12.5°	5775.0	5775.0	5812.5	5868.6	5879.9	5849.9	5647.7	5318.1	4805.0	4715.1	3977.3
15°	5614.0	5632.7	5715.1	5894.9	6082.1	6205.7	6078.4	5771.3	5217.0	5119.6	4269.5
17.5°	5569.0	5587.8	5643.9	5801.2	6052.2	6381.7	6445.4	6209.5	5606.5	5524.1	4569.1
20°	5696.4	5715.1	5763.8	5898.6	6089.6	6422.9	6688.8	6632.7	6018.5	5932.3	4872.4
22.5°	5999.7	6011.0	6011.0	6115.8	6284.4	6531.5	6842.4	7033.4	6441.7	6348.0	5172.1
25°	6651.4	6628.9	6539.0	6486.6	6595.2	6797.4	7037.1	7385.4	6913.5	6786.2	5494.1
27.5°	7505.3	7580.2	7363.0	7112.0	7029.6	7145.7	7310.5	7696.3	7370.5	7235.6	5786.3
30°	8662.5	8632.6	8347.9	7988.4	7632.6	7591.4	7647.6	7962.2	7827.4	7700.0	6112.1
32.5°	9613.8	9670.0	9370.4	8932.2	8400.4	8149.4	8089.5	8280.5	8314.2	8231.8	6497.8
35°	10591.3	10651.2	10359.1	9872.2	9239.3	8819.8	8647.6	8673.8	8917.2	8812.3	6902.3
37.5°	11467.6	11520.1	11231.7	10733.6	10100.7	9587.6	9340.4	9138.2	9501.4	9407.8	7329.3
40°	12134.3	12141.8	11947.0	11501.4	10902.1	10370.3	10089.4	9692.4	10119.4	10055.7	7774.9
42.5°	12606.2	12621.2	12478.8	12096.8	11542.6	11048.2	10819.7	10347.8	10831.0	10774.8	8291.8
45°	12827.1	12853.4	12838.4	12486.3	12025.7	11598.7	11523.8	11044.4	11610.0	11557.5	8887.2
47.5°	12617.4	12617.4	12808.4	12759.7	12336.5	12051.9	12138.0	11771.0	12456.4	12407.7	9494.0
50°	11744.8	11756.0	12145.5	12703.5	12456.4	12392.7	12662.4	12482.6	13224.1	13254.1	10220.5
52.5°	9452.8	9434.0	10748.6	11819.7	12374.0	12546.3	13145.5	13209.1	14145.4	14235.3	10943.3
55°	7063.4	7052.1	8310.5	10254.2	11797.2	12467.6	13415.1	13857.1	14931.9	14988.1	11482.6
57.5°	5591.5	5561.5	6254.4	8265.5	10493.9	12115.6	13426.4	13980.6	15370.1	15467.5	12006.9
60°	4299.4	4273.2	4790.0	6149.5	8647.6	11179.3	13104.3	13988.1	15793.3	15965.6	12711.0
62.5°	3074.8	3104.7	3501.7	4411.8	6651.4	9857.2	12684.8	14093.0	16546.1	16740.8	13711.0
65°	2074.8	2059.8	2389.4	3003.6	4730.1	8078.3	12040.7	14314.0	17901.8	18242.6	14909.4
67.5°	1441.9	1453.1	1602.9	1955.0	3003.6	6202.0	10969.5	14437.6	19302.5	19568.4	15748.4
70°	1041.2	1056.1	1138.5	1314.5	1835.1	4205.8	9273.0	13872.0	19680.8	19913.0	15164.1
72.5°	685.4	715.3	838.9	932.5	1172.2	2632.8	6831.2	11950.8	18051.6	18223.9	12722.3
75°	370.8	378.3	539.3	696.6	835.2	1640.4	4074.7	8059.6	13505.0	13448.8	8389.1
77.5°	288.4	299.6	333.3	498.1	561.8	902.6	1610.4	3640.3	6396.7	6224.4	2861.3
80°	176.0	183.5	232.2	295.9	393.2	524.3	471.9	988.7	1299.6	1217.2	419.5
82.5°	104.9	112.4	138.6	247.2	310.8	247.2	164.8	239.7	243.4	239.7	104.9
85°	18.7	18.7	97.4	172.3	164.8	71.2	97.4	78.6	71.2	74.9	22.5
87.5°	0.0	0.0	37.5	52.4	74.9	26.2	37.5	18.7	18.7	18.7	11.2
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°	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1
2.5°	3037.3	2910.0	2647.8	2419.4	2190.9	2022.4	1895.0	1764.0	1719.0	1662.8	1632.9
5°	3089.7	2838.8	2318.2	1902.5	1550.5	1280.8	1108.6	1003.7	936.3	887.6	876.4
7.5°	3168.4	2782.6	2052.3	1490.6	1104.8	835.2	692.9	621.7	584.2	561.8	554.3
10°	3262.0	2734.0	1790.2	1161.0	779.0	588.0	509.3	479.4	464.4	456.9	453.2
12.5°	3393.1	2715.2	1569.2	895.1	588.0	483.1	441.9	423.2	412.0	400.7	397.0
15°	3565.4	2722.7	1367.0	692.9	486.9	430.7	397.0	378.3	363.3	352.0	352.0
17.5°	3745.1	2734.0	1168.5	561.8	441.9	393.2	355.8	329.6	318.3	307.1	303.4
20°	3913.7	2730.2	977.5	479.4	400.7	352.0	314.6	288.4	269.7	258.4	258.4
22.5°	4074.7	2707.7	797.7	430.7	367.0	310.8	269.7	243.4	228.5	217.2	217.2
25°	4247.0	2662.8	651.7	393.2	325.8	273.4	232.2	206.0	194.7	183.5	183.5
27.5°	4381.8	2587.9	531.8	359.5	288.4	235.9	198.5	176.0	164.8	157.3	157.3
30°	4527.9	2479.3	441.9	322.1	250.9	202.2	168.5	149.8	138.6	134.8	134.8
32.5°	4688.9	2359.4	378.3	284.6	213.5	172.3	142.3	131.1	119.8	116.1	116.1
35°	4876.2	2254.6	340.8	247.2	187.3	146.1	123.6	112.4	104.9	104.9	104.9
37.5°	5089.7	2146.0	307.1	217.2	161.0	123.6	104.9	101.1	97.4	93.6	93.6
40°	5321.9	2029.9	277.1	191.0	138.6	104.9	89.9	89.9	86.1	86.1	86.1
42.5°	5584.0	1928.8	250.9	168.5	119.8	89.9	78.6	78.6	74.9	74.9	74.9
45°	5868.6	1835.1	228.5	149.8	104.9	78.6	71.2	67.4	63.7	63.7	63.7
47.5°	6205.7	1782.7	209.7	131.1	89.9	67.4	59.9	56.2	52.4	48.7	48.7
50°	6636.4	1805.2	191.0	108.6	78.6	56.2	48.7	44.9	41.2	37.5	37.5
52.5°	6977.2	1793.9	164.8	93.6	63.7	44.9	37.5	33.7	30.0	26.2	26.2
55°	7224.4	1749.0	142.3	78.6	48.7	37.5	30.0	22.5	18.7	18.7	18.7
57.5°	7467.8	1704.0	119.8	63.7	37.5	26.2	18.7	15.0	15.0	15.0	15.0
60°	7846.1	1640.4	104.9	52.4	30.0	18.7	11.2	11.2	7.5	7.5	7.5
62.5°	8306.7	1561.7	86.1	44.9	22.5	15.0	7.5	7.5	0.0	0.0	0.0
65°	8812.3	1423.2	71.2	33.7	18.7	11.2	7.5	0.0	0.0	0.0	0.0
67.5°	8696.2	1142.3	59.9	22.5	15.0	7.5	3.7	0.0	0.0	0.0	0.0
70°	7692.5	771.5	48.7	18.7	11.2	7.5	3.7	0.0	0.0	0.0	0.0
72.5°	6025.9	456.9	33.7	15.0	7.5	3.7	0.0	0.0	0.0	0.0	0.0
75°	3857.5	228.5	22.5	11.2	7.5	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	1292.1	112.4	15.0	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	183.5	37.5	7.5	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.2	15.0	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.0	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	3.7	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)