

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: P400416

Luminaire Tested: **ARCH-L-PA3-280-727-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400416
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-PA3-280-727-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1180mA 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: 23904 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

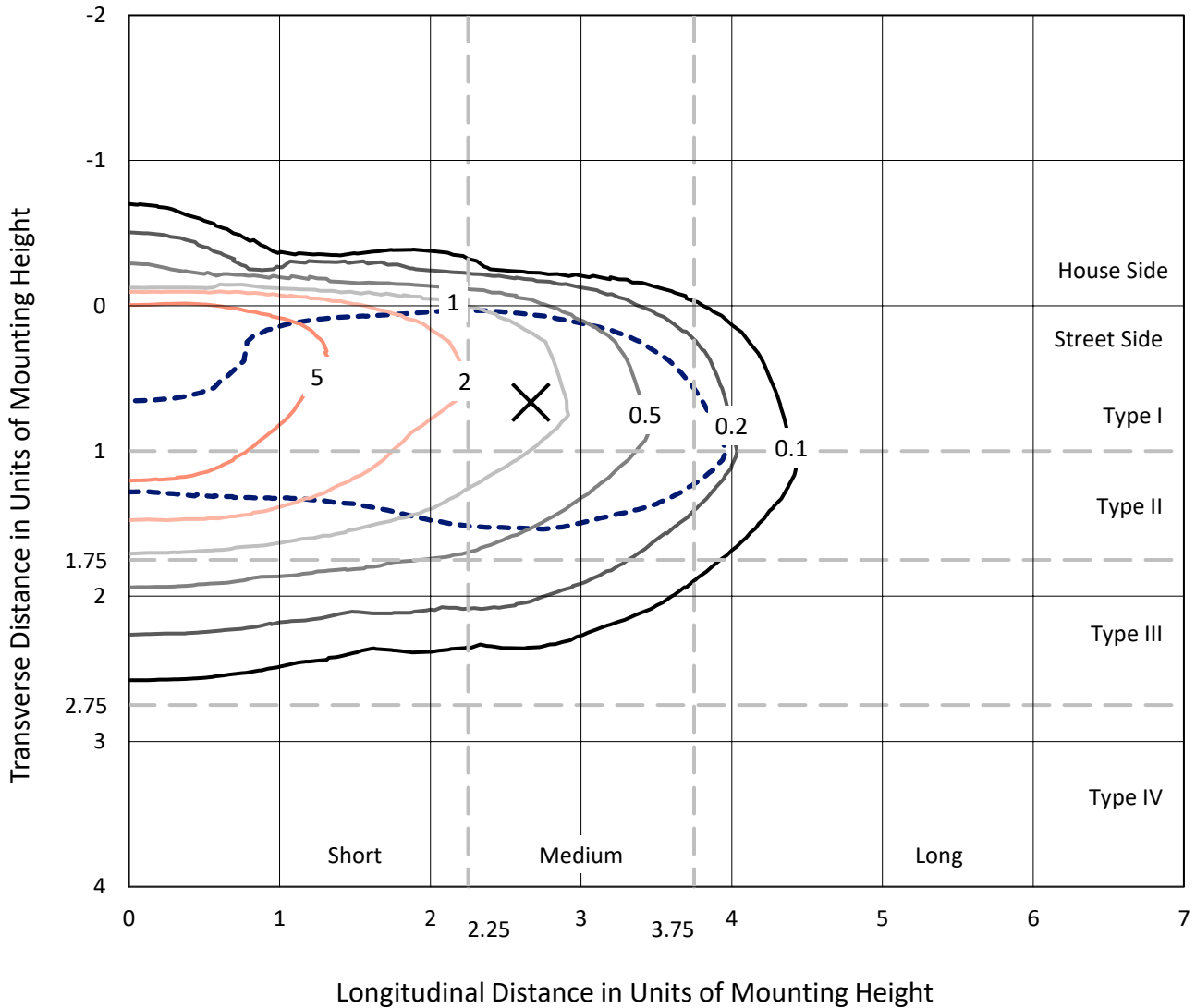
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

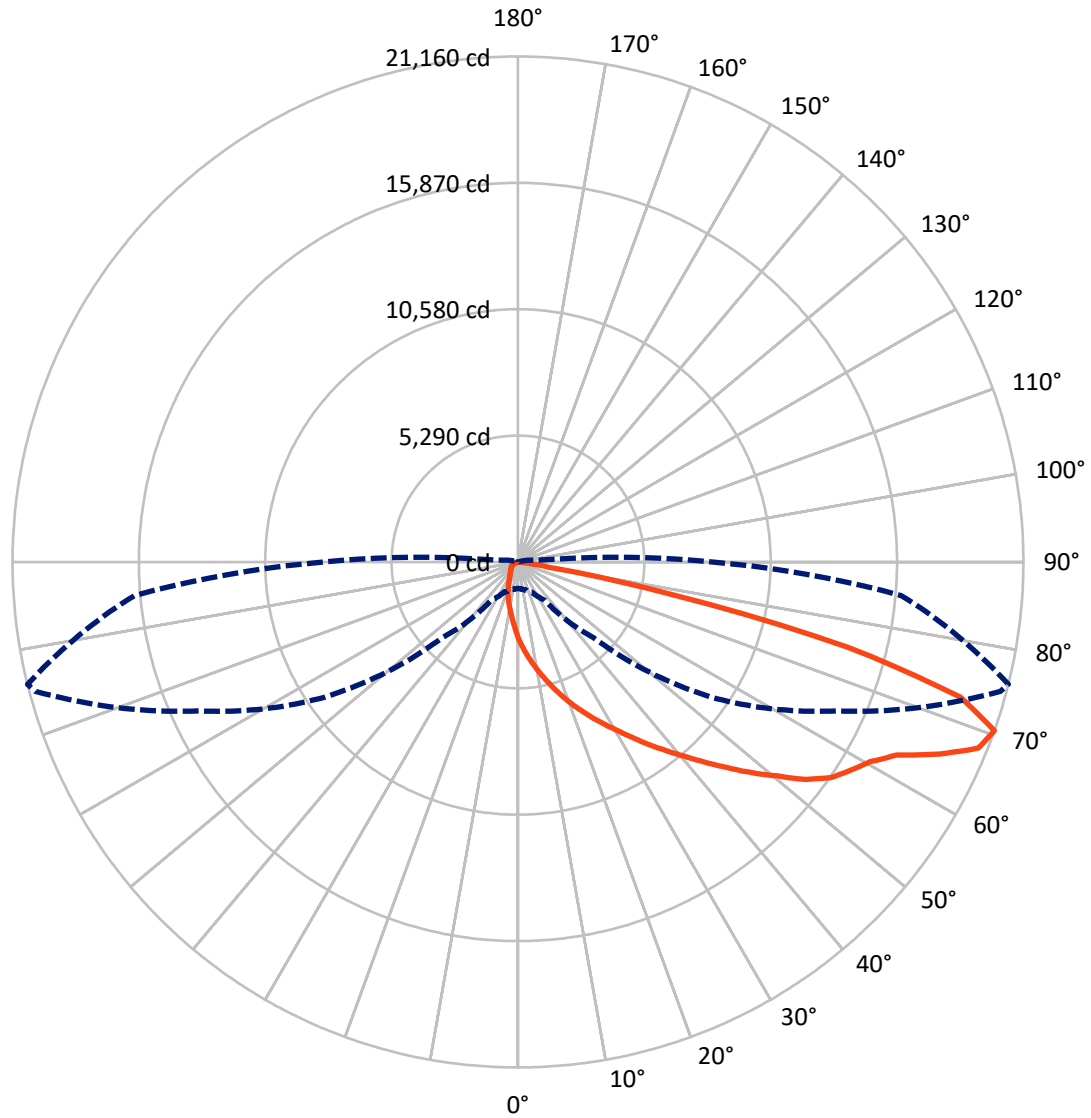
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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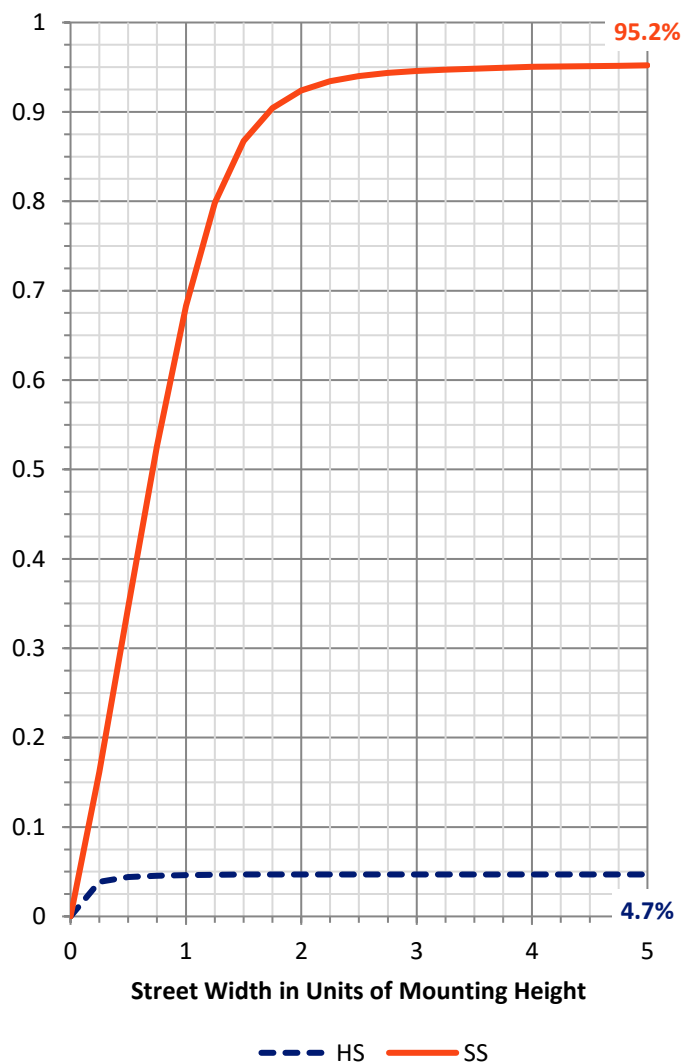
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1127.4	0.0	1127.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	22776.6	0.0	22776.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	23904.0	0.0	23904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.4	1.3
10°-20°	972.9	4.1
20°-30°	1811.9	7.6
30°-40°	3204.8	13.4
40°-50°	4900.9	20.5
50°-60°	5556.4	23.2
60°-70°	4763.2	19.9
70°-80°	2307.0	9.7
80°-90°	85.6	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°	23904.0	100.0
0°-180°	23904.0	100.0

Coefficient of Utilization

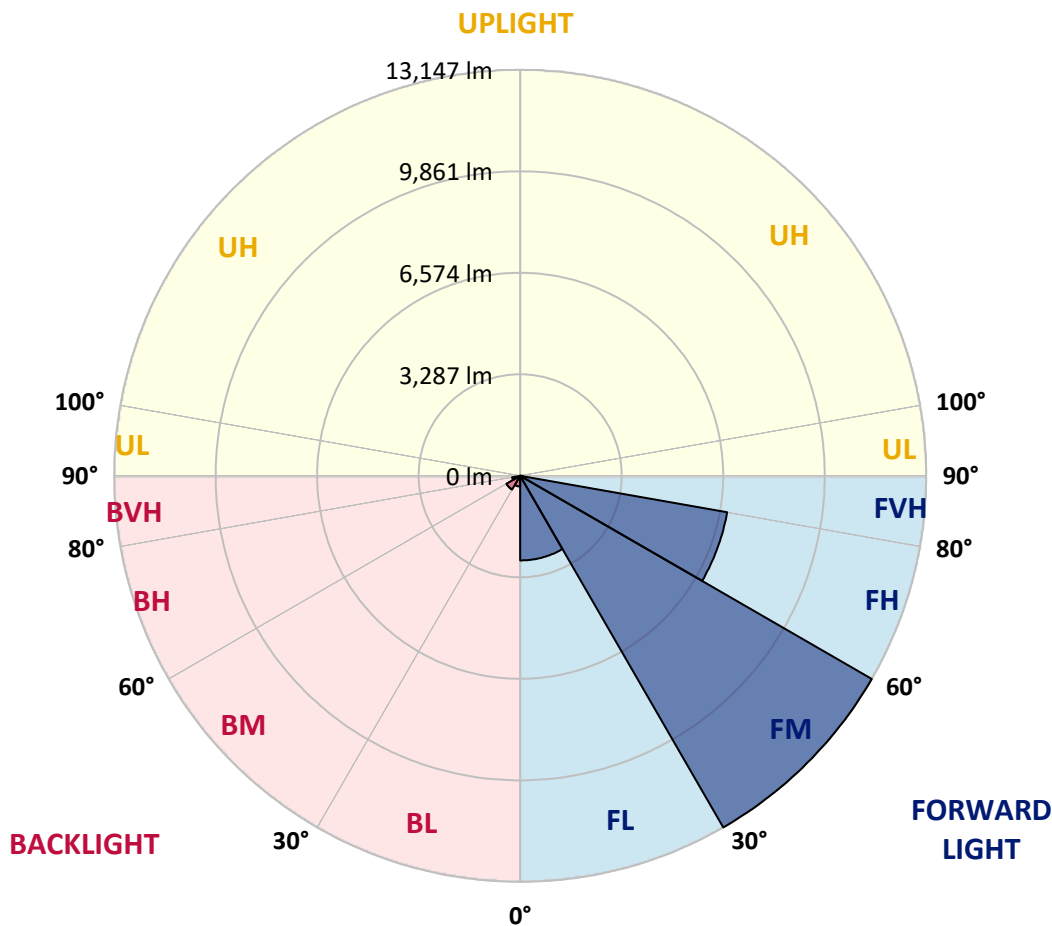


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2740.3	11.5			
FM (30°-60°)	13147.4	55.0			
FH (60°-80°)	6804.8	28.5			G3/7500
FVH (80°-90°)	84.1	0.4			G1/100
BL (0°-30°)	345.8	1.4	B1/500		
BM (30°-60°)	514.6	2.2	B1/1000		
BH (60°-80°)	265.5	1.1	B1/500		G1/500
BVH (80°-90°)	1.5	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°	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7
2.5°	4373.7	4349.8	4326.0	4234.4	4150.9	4075.2	3932.0	3744.9	3577.8	3542.0	3347.0
5°	5137.8	5110.0	5074.2	4982.6	4875.2	4747.8	4536.9	4250.4	3955.9	3892.2	3530.0
7.5°	5655.2	5631.3	5579.6	5535.8	5428.4	5305.0	5070.2	4735.9	4329.9	4250.4	3740.9
10°	6009.4	5993.5	5985.5	5949.7	5870.1	5770.6	5535.8	5185.6	4708.0	4616.5	3963.8
12.5°	6136.7	6136.7	6176.5	6236.2	6248.2	6216.3	6001.4	5651.2	5106.0	5010.5	4226.5
15°	5965.6	5985.5	6073.1	6264.1	6463.1	6594.4	6459.1	6132.8	5543.8	5440.3	4536.9
17.5°	5917.9	5937.8	5997.5	6164.6	6431.2	6781.5	6849.1	6598.4	5957.7	5870.1	4855.3
20°	6053.2	6073.1	6124.8	6268.1	6471.0	6825.2	7107.8	7048.1	6395.4	6303.9	5177.6
22.5°	6375.5	6387.5	6387.5	6498.9	6678.0	6940.7	7271.0	7473.9	6845.1	6745.6	5496.0
25°	7068.0	7044.1	6948.6	6892.9	7008.3	7223.2	7477.9	7848.0	7346.6	7211.3	5838.3
27.5°	7975.4	8055.0	7824.2	7557.5	7470.0	7593.3	7768.4	8178.3	7832.1	7688.8	6148.7
30°	9205.1	9173.3	8870.8	8488.8	8110.7	8066.9	8126.6	8460.9	8317.6	8182.3	6494.9
32.5°	10216.0	10275.7	9957.3	9491.7	8926.5	8659.9	8596.2	8799.2	8835.0	8747.4	6904.8
35°	11254.7	11318.4	11007.9	10490.6	9818.0	9372.3	9189.2	9217.1	9475.7	9364.3	7334.6
37.5°	12185.9	12241.7	11935.2	11405.9	10733.3	10188.1	9925.4	9710.5	10096.6	9997.1	7788.3
40°	12894.3	12902.3	12695.3	12221.8	11585.0	11019.9	10721.4	10299.5	10753.2	10685.6	8261.9
42.5°	13395.8	13411.7	13260.5	12854.5	12265.5	11740.2	11497.4	10996.0	11509.4	11449.7	8811.1
45°	13630.6	13658.4	13642.5	13268.4	12778.9	12325.2	12245.6	11736.2	12337.2	12281.5	9443.9
47.5°	13407.7	13407.7	13610.7	13558.9	13109.2	12806.8	12898.3	12508.3	13236.6	13184.8	10088.6
50°	12480.4	12492.4	12906.3	13499.2	13236.6	13168.9	13455.5	13264.4	14052.4	14084.3	10860.7
52.5°	10044.8	10024.9	11421.8	12560.0	13149.0	13332.1	13968.9	14036.5	15031.4	15127.0	11628.8
55°	7505.8	7493.8	8831.0	10896.5	12536.2	13248.5	14255.4	14725.0	15867.2	15926.9	12201.9
57.5°	5941.7	5909.9	6646.2	8783.3	11151.2	12874.4	14267.3	14856.3	16332.8	16436.3	12759.0
60°	4568.7	4540.9	5090.1	6534.7	9189.2	11879.5	13925.1	14864.3	16782.5	16965.6	13507.2
62.5°	3267.4	3299.2	3721.0	4688.1	7068.0	10474.7	13479.3	14975.7	17582.5	17789.4	14569.8
65°	2204.8	2188.9	2539.1	3191.7	5026.4	8584.3	12794.8	15210.5	19023.1	19385.3	15843.3
67.5°	1532.2	1544.1	1703.3	2077.4	3191.7	6590.4	11656.6	15341.9	20511.5	20794.1	16734.8
70°	1106.4	1122.3	1209.8	1396.9	1950.1	4469.2	9853.8	14740.9	20913.5	21160.2	16113.9
72.5°	728.3	760.1	891.5	991.0	1245.7	2797.8	7259.0	12699.3	19182.3	19365.4	13519.1
75°	394.0	402.0	573.1	740.2	887.5	1743.1	4329.9	8564.4	14350.9	14291.2	8914.6
77.5°	306.4	318.4	354.2	529.3	597.0	959.1	1711.3	3868.3	6797.4	6614.3	3040.5
80°	187.0	195.0	246.7	314.4	417.9	557.2	501.4	1050.6	1381.0	1293.4	445.7
82.5°	111.4	119.4	147.3	262.7	330.3	262.7	175.1	254.7	258.7	254.7	111.4
85°	19.9	19.9	103.5	183.1	175.1	75.6	103.5	83.6	75.6	79.6	23.9
87.5°	0.0	0.0	39.8	55.7	79.6	27.9	39.8	19.9	19.9	19.9	11.9
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°	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7
2.5°	3227.6	3092.3	2813.7	2570.9	2328.1	2149.1	2013.7	1874.5	1826.7	1767.0	1735.2
5°	3283.3	3016.6	2463.5	2021.7	1647.6	1361.1	1178.0	1066.6	994.9	943.2	931.3
7.5°	3366.9	2956.9	2180.9	1583.9	1174.0	887.5	736.3	660.6	620.8	597.0	589.0
10°	3466.3	2905.2	1902.3	1233.7	827.8	624.8	541.2	509.4	493.5	485.5	481.5
12.5°	3605.6	2885.3	1667.5	951.2	624.8	513.4	469.6	449.7	437.8	425.8	421.9
15°	3788.7	2893.3	1452.6	736.3	517.4	457.7	421.9	402.0	386.0	374.1	374.1
17.5°	3979.7	2905.2	1241.7	597.0	469.6	417.9	378.1	350.2	338.3	326.3	322.4
20°	4158.8	2901.2	1038.7	509.4	425.8	374.1	334.3	306.4	286.5	274.6	274.6
22.5°	4329.9	2877.3	847.7	457.7	390.0	330.3	286.5	258.7	242.8	230.8	230.8
25°	4513.0	2829.6	692.5	417.9	346.2	290.5	246.7	218.9	206.9	195.0	195.0
27.5°	4656.3	2750.0	565.1	382.1	306.4	250.7	210.9	187.0	175.1	167.1	167.1
30°	4811.5	2634.6	469.6	342.3	266.6	214.9	179.1	159.2	147.3	143.3	143.3
32.5°	4982.6	2507.2	402.0	302.5	226.8	183.1	151.2	139.3	127.4	123.4	123.4
35°	5181.6	2395.8	362.2	262.7	199.0	155.2	131.3	119.4	111.4	111.4	111.4
37.5°	5408.5	2280.4	326.3	230.8	171.1	131.3	111.4	107.5	103.5	99.5	99.5
40°	5655.2	2157.0	294.5	203.0	147.3	111.4	95.5	95.5	91.5	91.5	91.5
42.5°	5933.8	2049.6	266.6	179.1	127.4	95.5	83.6	83.6	79.6	79.6	79.6
45°	6236.2	1950.1	242.8	159.2	111.4	83.6	75.6	71.6	67.7	67.7	67.7
47.5°	6594.4	1894.4	222.9	139.3	95.5	71.6	63.7	59.7	55.7	51.7	51.7
50°	7052.1	1918.2	203.0	115.4	83.6	59.7	51.7	47.8	43.8	39.8	39.8
52.5°	7414.2	1906.3	175.1	99.5	67.7	47.8	39.8	35.8	31.8	27.9	27.9
55°	7676.9	1858.5	151.2	83.6	51.7	39.8	31.8	23.9	19.9	19.9	19.9
57.5°	7935.6	1810.8	127.4	67.7	39.8	27.9	19.9	15.9	15.9	15.9	15.9
60°	8337.5	1743.1	111.4	55.7	31.8	19.9	11.9	11.9	8.0	8.0	8.0
62.5°	8827.0	1659.5	91.5	47.8	23.9	15.9	8.0	8.0	0.0	0.0	0.0
65°	9364.3	1512.3	75.6	35.8	19.9	11.9	8.0	0.0	0.0	0.0	0.0
67.5°	9240.9	1213.8	63.7	23.9	15.9	8.0	4.0	0.0	0.0	0.0	0.0
70°	8174.4	819.8	51.7	19.9	11.9	8.0	4.0	0.0	0.0	0.0	0.0
72.5°	6403.4	485.5	35.8	15.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0
75°	4099.1	242.8	23.9	11.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0
77.5°	1373.0	119.4	15.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	195.0	39.8	8.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.8	15.9	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	4.0	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)