

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: P400398

Luminaire Tested: **ARCH-L-PA3-270-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400398
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-PA3-270-830-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1155mA 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: 22382 lumens
Efficiency: N/A
Efficacy: 82.0 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

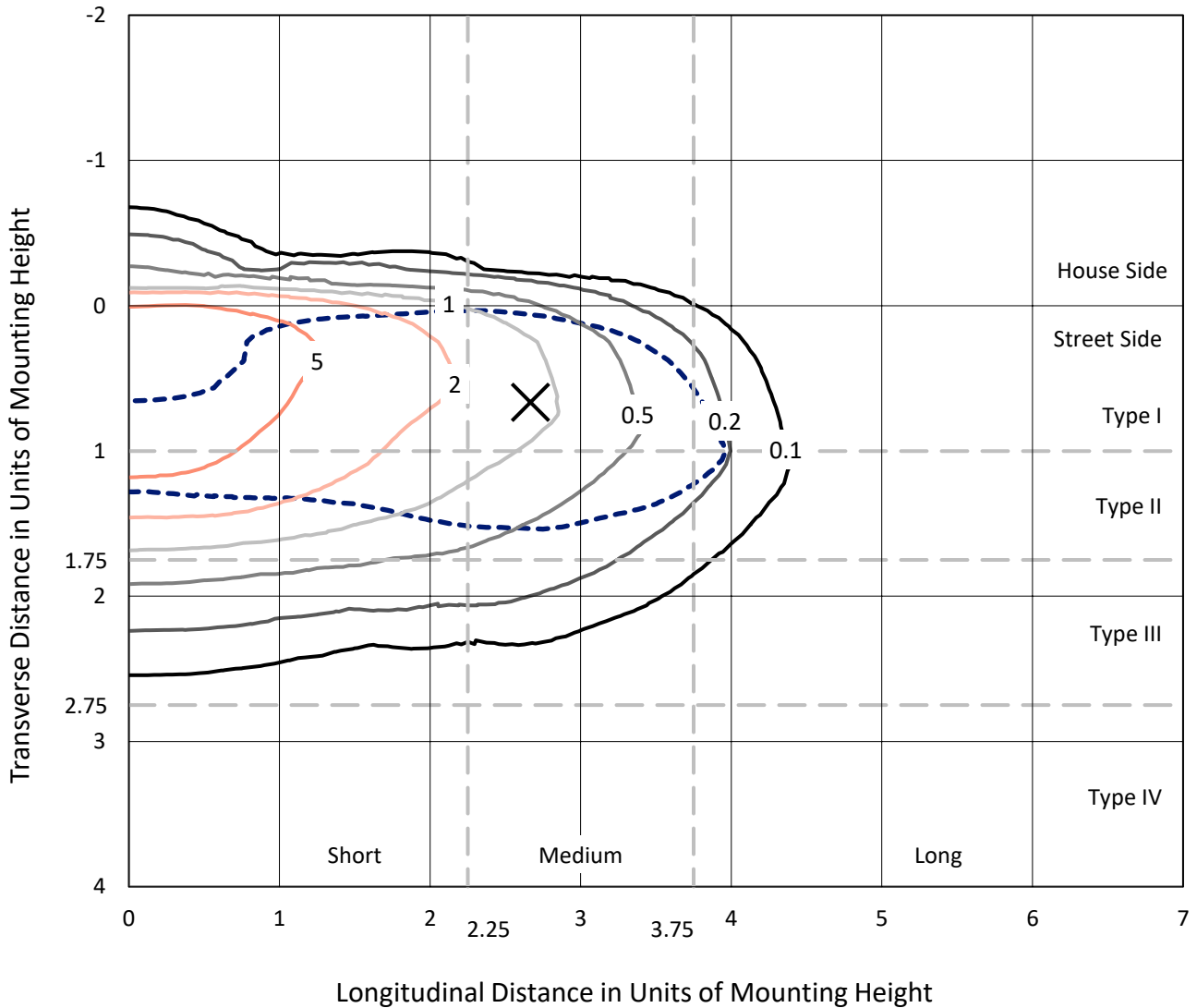
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

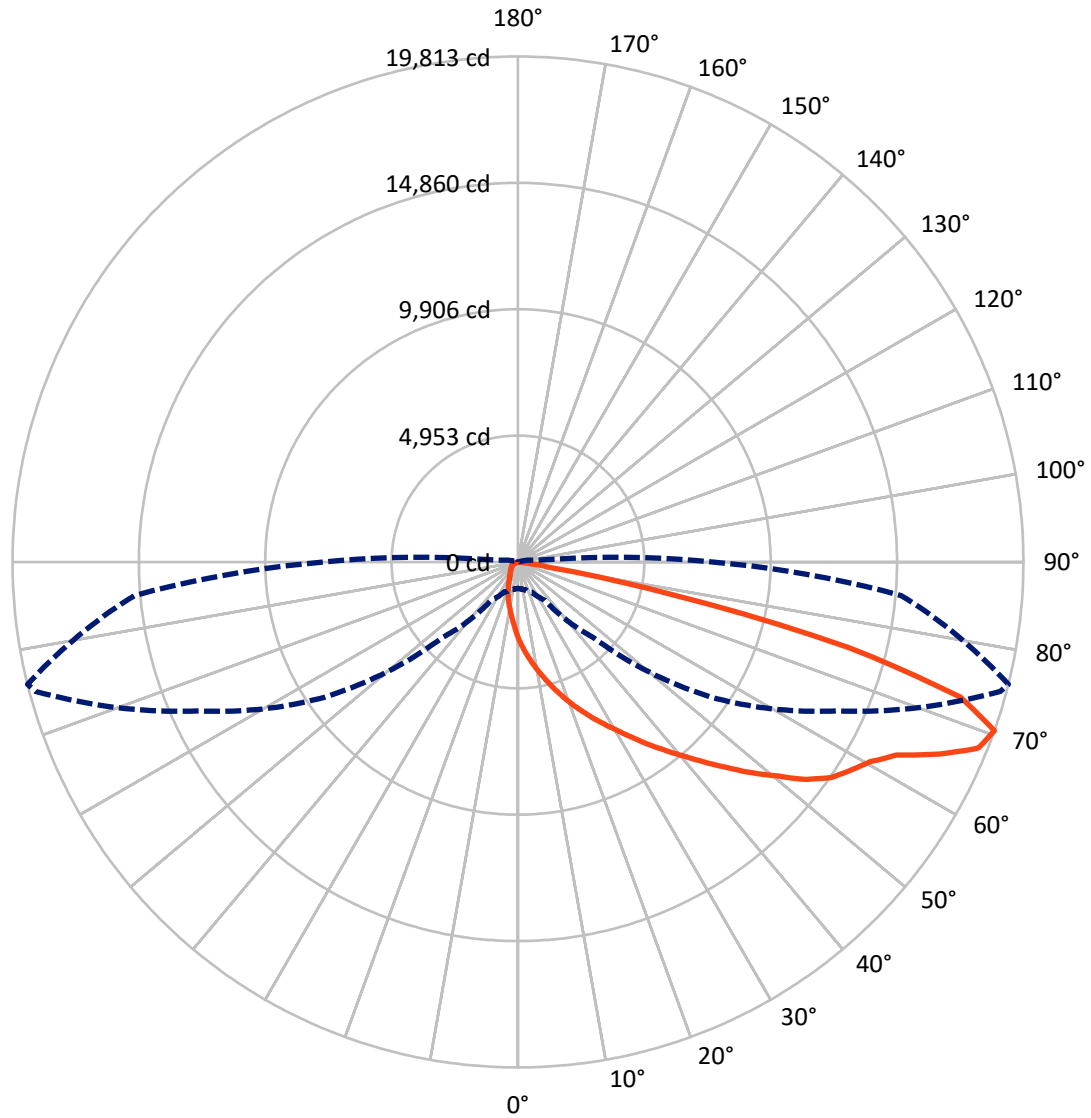
✕ Max cd
 - - - 1/2 Max cd



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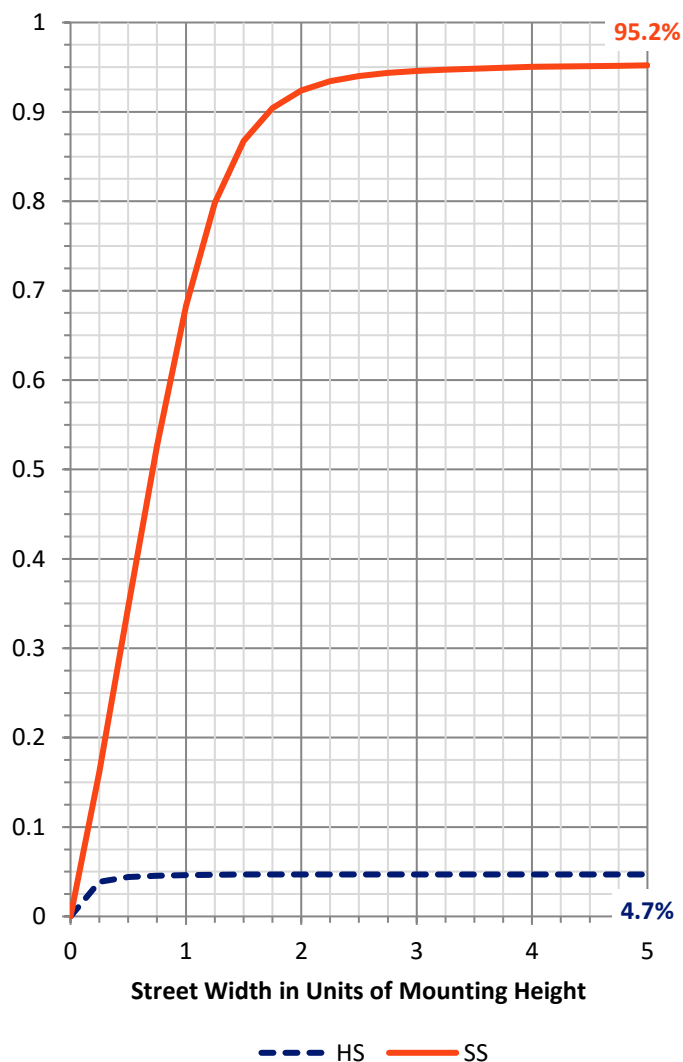
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1055.6	0.0	1055.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	21326.4	0.0	21326.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	22382.0	0.0	22382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	1.3
10°-20°	910.9	4.1
20°-30°	1696.5	7.6
30°-40°	3000.7	13.4
40°-50°	4588.8	20.5
50°-60°	5202.6	23.2
60°-70°	4459.9	19.9
70°-80°	2160.1	9.7
80°-90°	80.1	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°	22382.0	100.0
0°-180°	22382.0	100.0

Coefficient of Utilization

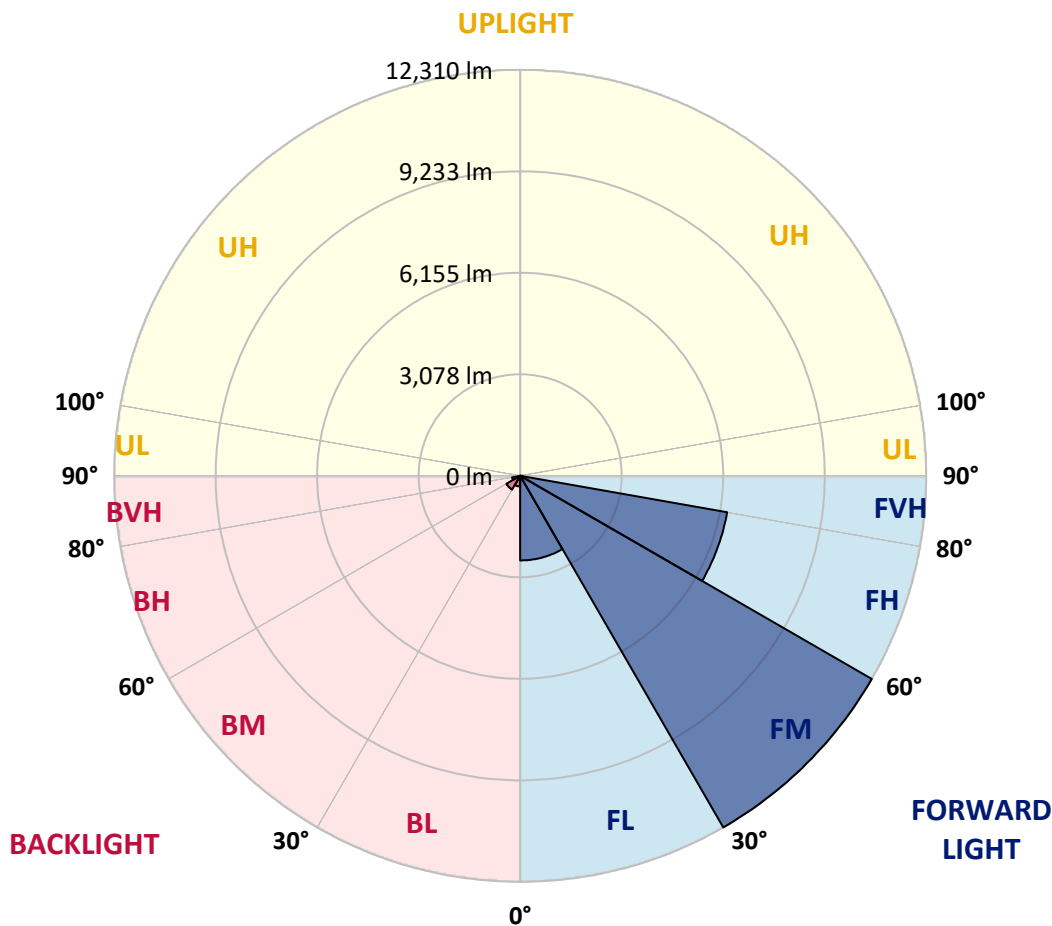


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2565.8	11.5			
FM (30°-60°)	12310.3	55.0			
FH (60°-80°)	6371.5	28.5			G3/7500
FVH (80°-90°)	78.8	0.4			G1/100
BL (0°-30°)	323.8	1.4	B1/500		
BM (30°-60°)	481.9	2.2	B1/1000		
BH (60°-80°)	248.6	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°	2996.0	2996.0	2996.0	2996.0	2996.0	2996.0	2996.0	2996.0	2996.0	2996.0	2996.0
2.5°	4095.2	4072.9	4050.5	3964.8	3886.6	3815.8	3681.6	3506.5	3350.0	3316.4	3133.8
5°	4810.7	4784.6	4751.1	4665.4	4564.8	4445.5	4248.0	3979.7	3704.0	3644.4	3305.3
7.5°	5295.1	5272.8	5224.3	5183.3	5082.7	4967.2	4747.4	4434.3	4054.3	3979.7	3502.8
10°	5626.8	5611.9	5604.4	5570.9	5496.3	5403.2	5183.3	4855.4	4408.3	4322.6	3711.4
12.5°	5746.0	5746.0	5783.3	5839.2	5850.3	5820.5	5619.3	5291.4	4780.9	4691.5	3957.4
15°	5585.8	5604.4	5686.4	5865.3	6051.6	6174.5	6047.8	5742.3	5190.8	5093.9	4248.0
17.5°	5541.1	5559.7	5615.6	5772.1	6021.8	6349.7	6413.0	6178.3	5578.3	5496.3	4546.1
20°	5667.8	5686.4	5734.8	5869.0	6059.0	6390.7	6655.2	6599.3	5988.2	5902.5	4848.0
22.5°	5969.6	5980.8	5980.8	6085.1	6252.8	6498.7	6808.0	6998.1	6409.3	6316.1	5146.1
25°	6618.0	6595.6	6506.2	6454.0	6562.1	6763.3	7001.8	7348.3	6878.8	6752.1	5466.5
27.5°	7467.6	7542.1	7326.0	7076.3	6994.3	7109.8	7273.8	7657.6	7333.4	7199.3	5757.2
30°	8619.0	8589.2	8306.0	7948.3	7594.3	7553.3	7609.2	7922.2	7788.0	7661.3	6081.4
32.5°	9565.5	9621.4	9323.3	8887.3	8358.2	8108.5	8048.9	8238.9	8272.5	8190.5	6465.2
35°	10538.1	10597.7	10307.0	9822.6	9192.9	8775.5	8604.1	8630.2	8872.4	8768.1	6867.6
37.5°	11410.0	11462.2	11175.3	10679.7	10049.9	9539.4	9293.5	9092.3	9453.7	9360.6	7292.4
40°	12073.3	12080.8	11887.0	11443.6	10847.4	10318.2	10038.8	9643.8	10068.6	10005.2	7735.9
42.5°	12542.8	12557.8	12416.2	12036.1	11484.6	10992.7	10765.4	10295.9	10776.6	10720.7	8250.1
45°	12762.7	12788.8	12773.9	12423.6	11965.3	11540.5	11465.9	10989.0	11551.6	11499.5	8842.6
47.5°	12554.0	12554.0	12744.1	12695.6	12274.6	11991.4	12077.1	11711.9	12393.8	12345.4	9446.3
50°	11685.8	11697.0	12084.5	12639.7	12393.8	12330.4	12598.7	12419.9	13157.7	13187.5	10169.2
52.5°	9405.3	9386.6	10694.6	11760.3	12311.8	12483.2	13079.4	13142.8	14074.4	14163.8	10888.4
55°	7027.9	7016.7	8268.7	10202.7	11738.0	12405.0	13347.7	13787.4	14856.9	14912.8	11424.9
57.5°	5563.4	5533.6	6223.0	8224.0	10441.2	12054.7	13358.9	13910.4	15292.9	15389.8	11946.6
60°	4277.8	4251.7	4766.0	6118.6	8604.1	11123.1	13038.5	13917.9	15714.0	15885.4	12647.2
62.5°	3059.3	3089.1	3484.1	4389.6	6618.0	9807.7	12621.1	14022.2	16463.0	16656.7	13642.1
65°	2064.4	2049.5	2377.4	2988.5	4706.4	8037.7	11980.2	14242.1	17811.9	18151.0	14834.5
67.5°	1434.6	1445.8	1594.9	1945.1	2988.5	6170.8	10914.4	14365.0	19205.5	19470.1	15669.2
70°	1035.9	1050.8	1132.8	1307.9	1825.9	4184.7	9226.4	13802.3	19581.9	19812.9	15087.9
72.5°	681.9	711.7	834.7	927.9	1166.3	2619.6	6796.8	11890.7	17960.9	18132.4	12658.4
75°	368.9	376.4	536.6	693.1	831.0	1632.1	4054.3	8019.1	13437.2	13381.3	8347.0
77.5°	286.9	298.1	331.6	495.6	559.0	898.0	1602.3	3622.0	6364.6	6193.2	2846.9
80°	175.1	182.6	231.0	294.4	391.3	521.7	469.5	983.8	1293.0	1211.1	417.3
82.5°	104.3	111.8	137.9	245.9	309.3	245.9	164.0	238.5	242.2	238.5	104.3
85°	18.6	18.6	96.9	171.4	164.0	70.8	96.9	78.3	70.8	74.5	22.4
87.5°	0.0	0.0	37.3	52.2	74.5	26.1	37.3	18.6	18.6	18.6	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°	2996.0	2996.0	2996.0	2996.0	2996.0	2996.0	2996.0	2996.0	2996.0	2996.0	2996.0
2.5°	3022.1	2895.4	2634.5	2407.2	2179.9	2012.2	1885.5	1755.1	1710.4	1654.5	1624.7
5°	3074.2	2824.6	2306.6	1893.0	1542.7	1274.4	1103.0	998.7	931.6	883.1	872.0
7.5°	3152.5	2768.7	2042.0	1483.1	1099.3	831.0	689.4	618.6	581.3	559.0	551.5
10°	3245.6	2720.2	1781.2	1155.2	775.1	585.0	506.8	477.0	462.1	454.6	450.9
12.5°	3376.1	2701.6	1561.3	890.6	585.0	480.7	439.7	421.1	409.9	398.7	395.0
15°	3547.5	2709.0	1360.1	689.4	484.4	428.5	395.0	376.4	361.5	350.3	350.3
17.5°	3726.3	2720.2	1162.6	559.0	439.7	391.3	354.0	327.9	316.7	305.6	301.8
20°	3894.0	2716.5	972.6	477.0	398.7	350.3	313.0	286.9	268.3	257.1	257.1
22.5°	4054.3	2694.1	793.7	428.5	365.2	309.3	268.3	242.2	227.3	216.1	216.1
25°	4225.7	2649.4	648.4	391.3	324.2	272.0	231.0	204.9	193.8	182.6	182.6
27.5°	4359.8	2574.9	529.1	357.7	286.9	234.8	197.5	175.1	164.0	156.5	156.5
30°	4505.1	2466.8	439.7	320.5	249.7	201.2	167.7	149.1	137.9	134.1	134.1
32.5°	4665.4	2347.6	376.4	283.2	212.4	171.4	141.6	130.4	119.2	115.5	115.5
35°	4851.7	2243.3	339.1	245.9	186.3	145.3	123.0	111.8	104.3	104.3	104.3
37.5°	5064.1	2135.2	305.6	216.1	160.2	123.0	104.3	100.6	96.9	93.2	93.2
40°	5295.1	2019.7	275.7	190.0	137.9	104.3	89.4	89.4	85.7	85.7	85.7
42.5°	5556.0	1919.1	249.7	167.7	119.2	89.4	78.3	78.3	74.5	74.5	74.5
45°	5839.2	1825.9	227.3	149.1	104.3	78.3	70.8	67.1	63.3	63.3	63.3
47.5°	6174.5	1773.7	208.7	130.4	89.4	67.1	59.6	55.9	52.2	48.4	48.4
50°	6603.1	1796.1	190.0	108.1	78.3	55.9	48.4	44.7	41.0	37.3	37.3
52.5°	6942.2	1784.9	164.0	93.2	63.3	44.7	37.3	33.5	29.8	26.1	26.1
55°	7188.1	1740.2	141.6	78.3	48.4	37.3	29.8	22.4	18.6	18.6	18.6
57.5°	7430.3	1695.5	119.2	63.3	37.3	26.1	18.6	14.9	14.9	14.9	14.9
60°	7806.7	1632.1	104.3	52.2	29.8	18.6	11.2	11.2	7.5	7.5	7.5
62.5°	8265.0	1553.9	85.7	44.7	22.4	14.9	7.5	7.5	0.0	0.0	0.0
65°	8768.1	1416.0	70.8	33.5	18.6	11.2	7.5	0.0	0.0	0.0	0.0
67.5°	8652.6	1136.5	59.6	22.4	14.9	7.5	3.7	0.0	0.0	0.0	0.0
70°	7653.9	767.6	48.4	18.6	11.2	7.5	3.7	0.0	0.0	0.0	0.0
72.5°	5995.7	454.6	33.5	14.9	7.5	3.7	0.0	0.0	0.0	0.0	0.0
75°	3838.1	227.3	22.4	11.2	7.5	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	1285.6	111.8	14.9	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	182.6	37.3	7.5	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.0	14.9	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.9	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)