

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: P484536

Luminaire Tested: **IFLD-M-SA4D-827-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484536
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

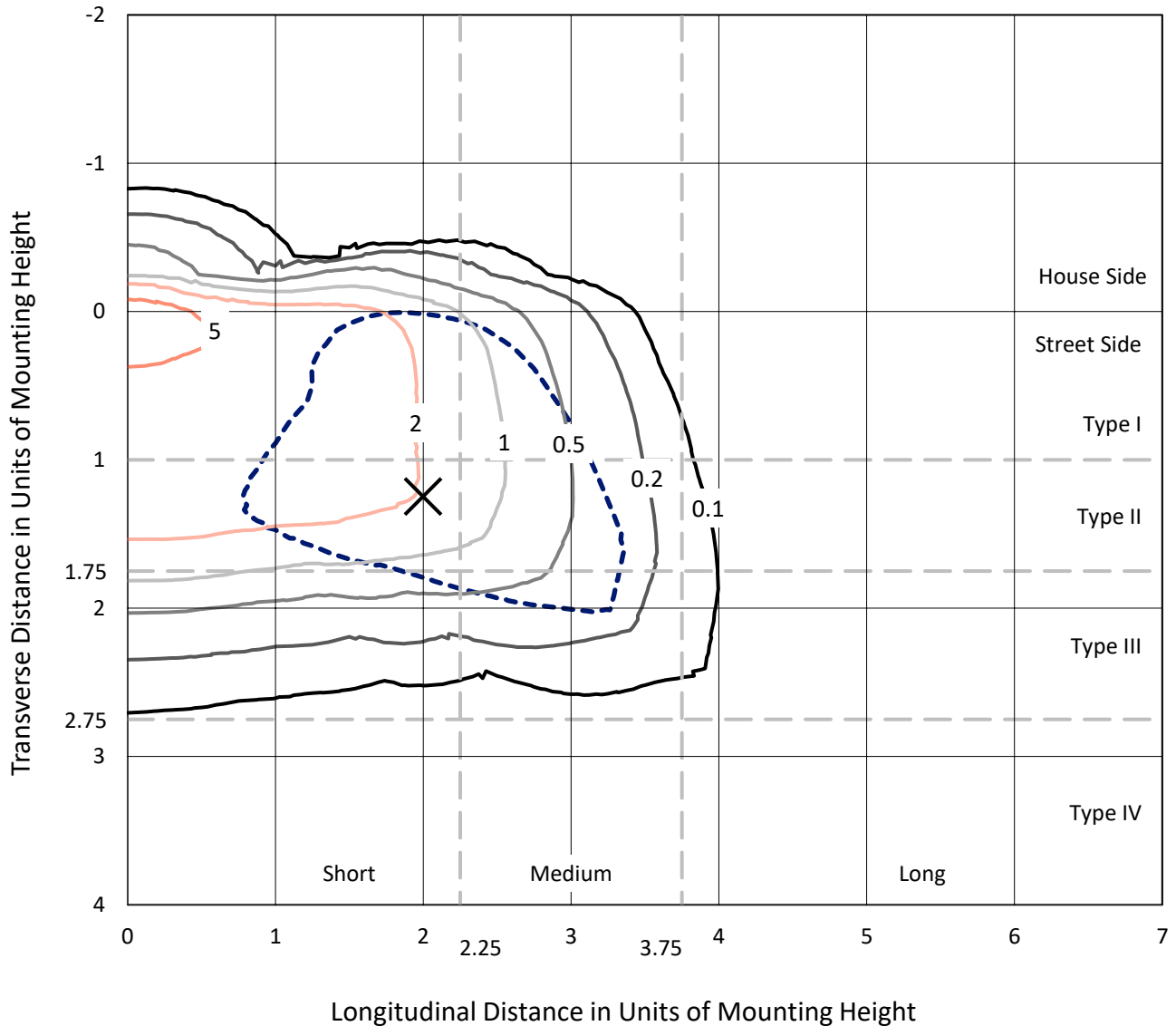
Lumens per Lamp: N/A
Luminaire Lumens: 19232.1 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 249.7
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

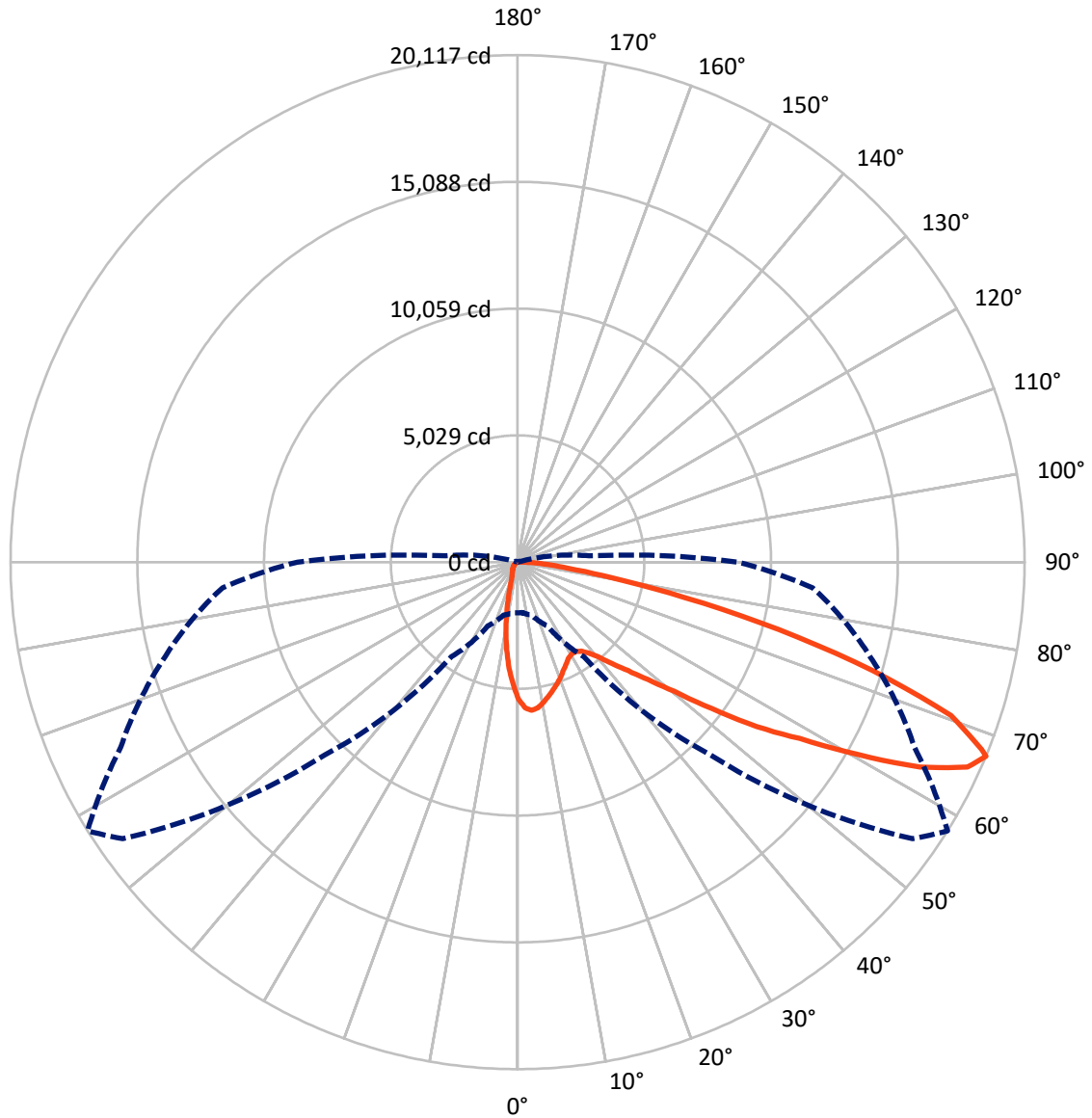
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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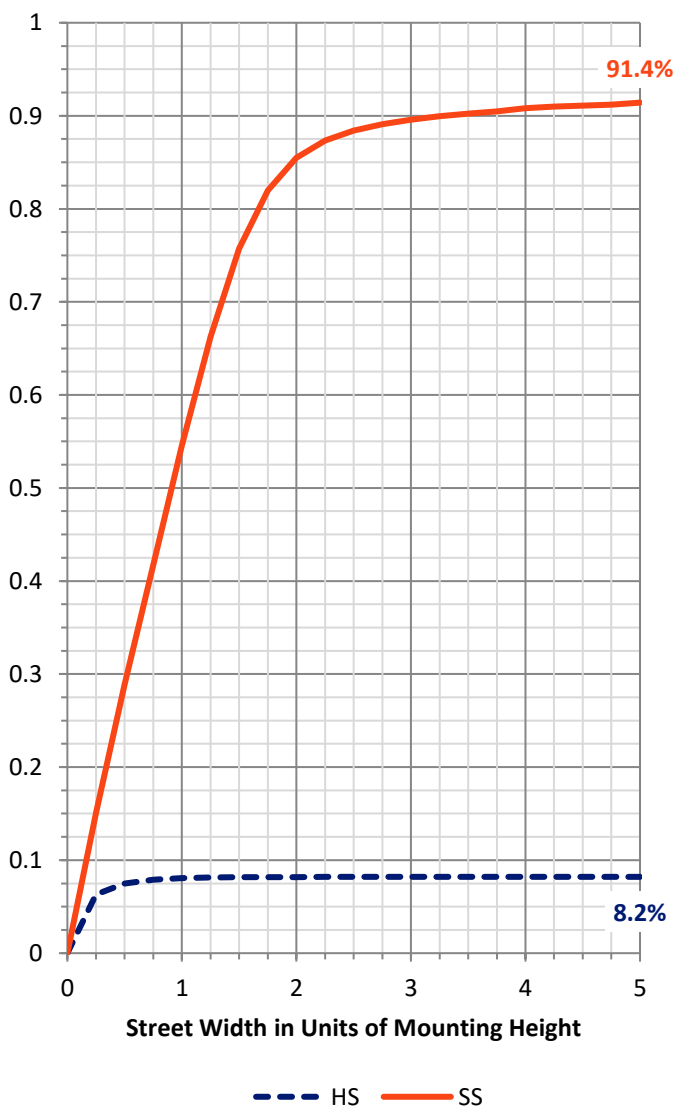
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1589.7	0.0	1589.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	17642.5	0.0	17642.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	19232.1	0.0	19232.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.3	2.2
10°-20°	896.7	4.7
20°-30°	1189.8	6.2
30°-40°	1648.6	8.6
40°-50°	2690.1	14.0
50°-60°	4728.4	24.6
60°-70°	5237.0	27.2
70°-80°	2170.2	11.3
80°-90°	238.9	1.2
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°	19232.1	100.0
0°-180°	19232.1	100.0

Coefficient of Utilization



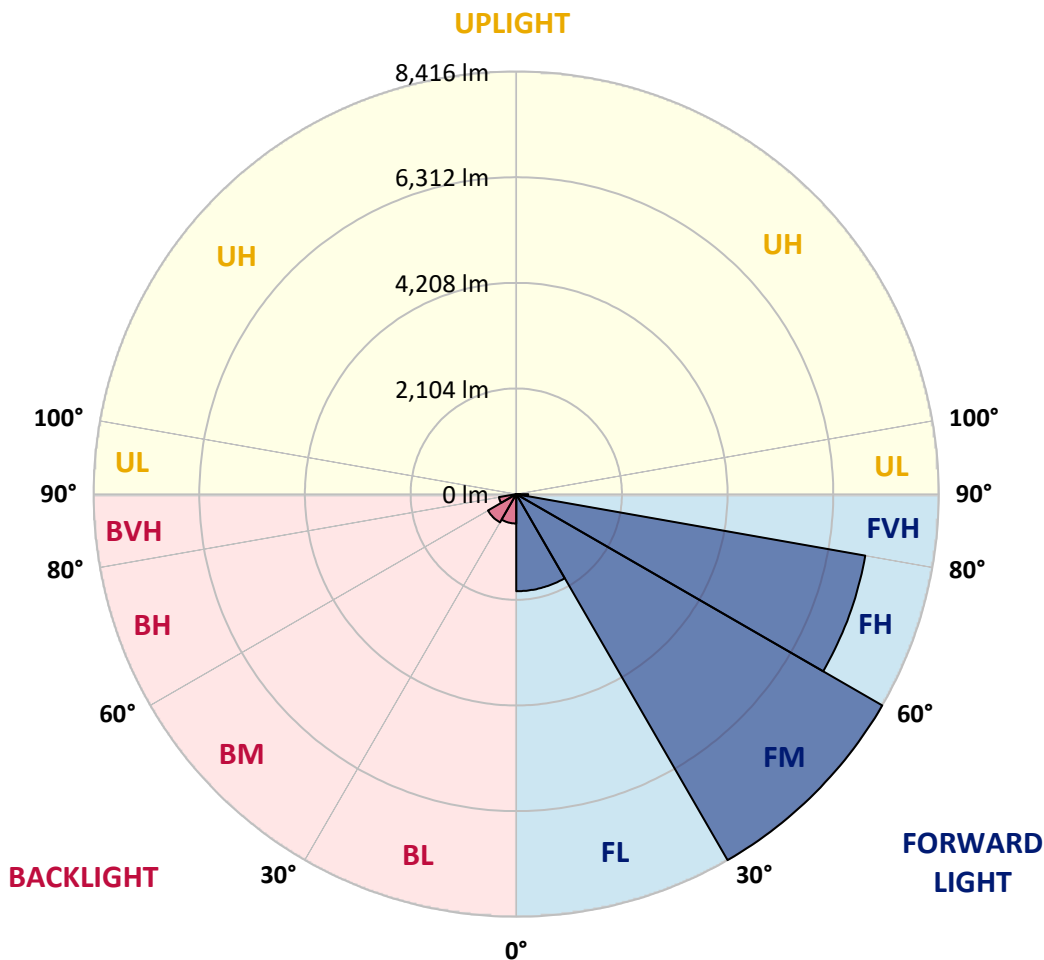
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1933.4	10.1			
FM (30°-60°)	8416.4	43.8			
FH (60°-80°)	7057.8	36.7			G3/7500
FVH (80°-90°)	235.0	1.2			G3/500
BL (0°-30°)	585.5	3.0	B2/1000		
BM (30°-60°)	650.7	3.4	B1/1000		
BH (60°-80°)	349.5	1.8	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7
2.5°	5928.7	5949.2	5967.0	5933.8	5961.9	5921.1	5816.4	5793.4	5775.5	5619.8	5530.4
5°	5926.2	5903.2	5921.1	5936.4	5898.1	5928.7	5903.2	5905.8	5836.8	5696.4	5446.2
7.5°	5530.4	5520.2	5530.4	5604.5	5688.7	5755.1	5793.4	5831.7	5785.8	5576.4	5333.8
10°	4996.8	5047.9	5075.9	5208.7	5338.9	5461.5	5581.5	5653.0	5640.2	5556.0	5211.3
12.5°	4624.0	4608.7	4710.8	4797.6	4927.9	5175.5	5384.9	5451.3	5527.9	5410.4	5050.4
15°	4279.3	4238.5	4299.7	4450.4	4672.5	4869.1	5162.8	5262.3	5359.4	5390.0	4963.6
17.5°	3949.9	3970.4	4034.2	4169.5	4378.9	4654.7	4930.4	5073.4	5305.7	5264.9	4833.4
20°	3791.6	3835.0	3858.0	3927.0	4072.5	4348.3	4759.3	4874.2	5121.9	5262.3	4705.7
22.5°	3799.3	3799.3	3745.7	3786.5	3919.3	4133.8	4527.0	4654.7	5047.9	5129.6	4590.8
25°	3881.0	3829.9	3832.5	3784.0	3840.2	3957.6	4317.6	4473.4	4897.2	5142.3	4529.5
27.5°	3942.3	3932.1	3916.7	3904.0	3832.5	3850.4	4179.7	4307.4	4838.5	5127.0	4435.1
30°	4164.4	4118.5	4103.1	4075.1	3980.6	3893.8	4069.9	4230.8	4792.5	5162.8	4381.4
32.5°	4350.8	4358.5	4371.2	4289.5	4207.8	3993.3	4100.6	4228.3	4759.3	5244.5	4435.1
35°	4585.7	4618.9	4624.0	4598.5	4511.7	4299.7	4228.3	4338.0	4815.5	5390.0	4440.2
37.5°	4943.2	4907.4	5004.5	5014.7	4953.4	4672.5	4524.4	4567.8	4981.5	5622.3	4634.2
40°	5175.5	5218.9	5400.2	5512.6	5407.9	5152.5	4953.4	4945.7	5221.5	5987.5	4874.2
42.5°	5433.4	5530.4	5729.6	5972.1	5959.4	5721.9	5520.2	5487.0	5647.9	6516.0	5254.7
45°	5785.8	5872.6	6150.9	6516.0	6715.2	6513.4	6209.6	6143.2	6166.2	7236.0	5903.2
47.5°	6370.5	6347.5	6748.3	7108.4	7435.2	7279.4	7149.2	6955.2	6937.3	8083.7	6799.4
50°	7031.8	7026.7	7384.1	7792.6	8170.5	8474.4	8257.3	8045.4	8050.5	9235.3	7853.9
52.5°	7659.9	7759.5	8145.0	8551.0	9199.5	9526.3	9735.7	9651.4	9245.5	10264.2	8982.5
55°	7991.8	8078.6	8461.6	9161.2	10185.1	11025.1	11591.9	11520.5	10736.6	11423.4	10095.7
57.5°	7677.7	7736.5	8254.8	9171.4	10874.5	12748.6	13292.4	13203.1	12278.8	12309.4	11441.3
60°	6362.8	6454.7	7225.8	8300.8	10606.4	14076.3	15633.8	15498.5	13683.1	13430.3	12306.9
62.5°	4407.0	4468.3	5101.5	6439.4	9334.8	14538.4	17845.0	17919.0	15164.0	14303.5	12564.7
65°	2854.6	2849.5	3212.0	4118.5	6615.6	13139.2	19152.2	19611.8	16593.8	14436.3	12485.6
67°	2017.1	2009.4	2180.5	2793.3	4580.6	10826.0	19129.3	20117.4	17370.0	14474.6	11752.8
67.5°	1861.3	1853.7	2017.1	2568.6	4133.8	10067.6	18843.3	19856.9	17643.2	14421.0	11431.1
70°	1445.2	1424.7	1486.0	1769.4	2407.8	6510.9	16126.6	18240.7	17076.4	13083.1	9128.0
72.5°	1044.3	1067.3	1164.3	1452.8	1889.4	3503.1	12291.5	14750.4	14262.7	9860.8	5801.1
75°	727.7	748.1	903.9	1184.7	1733.7	2124.3	8311.0	10698.3	9934.9	5443.6	2471.6
77.5°	380.4	406.0	577.0	947.3	1575.4	1644.3	4966.2	6784.1	5264.9	1937.9	681.7
80°	176.2	188.9	288.5	671.5	1317.5	1445.2	2895.4	3773.8	2106.5	434.1	234.9
82.5°	76.6	84.3	132.8	385.5	934.5	1263.9	1792.4	1978.8	763.4	140.4	145.5
85°	15.3	17.9	51.1	204.3	451.9	766.0	1258.8	1174.5	383.0	68.9	114.9
87.5°	0.0	0.0	12.8	58.7	122.6	227.2	533.6	533.6	117.5	35.7	43.4
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°	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7	5448.7
2.5°	5451.3	5359.4	5157.6	4971.3	4838.5	4687.8	4488.7	4399.3	4366.1	4320.2	4251.2
5°	5308.3	5195.9	4851.3	4504.0	4123.6	3835.0	3528.6	3349.9	3214.6	3130.3	3102.2
7.5°	5106.6	4876.8	4412.1	3855.5	3362.7	2933.7	2469.0	2155.0	1953.3	1871.6	1795.0
10°	4945.7	4647.0	3939.7	3247.8	2591.6	1963.5	1440.1	1164.3	954.9	875.8	865.6
12.5°	4736.4	4378.9	3498.0	2627.3	1802.6	1169.4	796.6	691.9	633.2	623.0	615.3
15°	4562.7	4136.3	3079.3	2035.0	1166.9	730.2	620.4	594.9	579.6	574.5	577.0
17.5°	4445.3	3875.9	2650.3	1480.9	768.5	597.5	571.9	556.6	549.0	546.4	538.7
20°	4212.9	3656.3	2226.5	1036.6	600.0	551.5	531.1	518.3	510.7	508.1	505.6
22.5°	4080.2	3378.0	1802.6	722.6	533.6	500.4	485.1	474.9	462.1	454.5	451.9
25°	3947.4	3173.7	1424.7	561.7	485.1	462.1	439.2	426.4	406.0	395.8	393.2
27.5°	3791.6	2972.0	1097.9	487.7	436.6	413.6	390.7	370.2	344.7	334.5	329.4
30°	3702.3	2775.4	827.3	436.6	400.9	370.2	342.1	316.6	288.5	270.6	265.5
32.5°	3656.3	2596.7	620.4	398.3	362.6	329.4	293.6	263.0	237.5	222.1	219.6
35°	3600.1	2423.1	487.7	362.6	326.8	291.1	255.3	224.7	199.2	186.4	181.3
37.5°	3658.9	2320.9	406.0	334.5	298.7	257.9	219.6	188.9	168.5	155.8	153.2
40°	3819.7	2236.7	352.4	308.9	270.6	227.2	191.5	160.9	143.0	132.8	127.7
42.5°	4067.4	2236.7	319.2	283.4	245.1	199.2	163.4	140.4	122.6	112.3	109.8
45°	4516.8	2305.6	291.1	257.9	214.5	171.1	140.4	117.5	99.6	89.4	86.8
47.5°	5147.4	2463.9	268.1	234.9	191.5	150.6	122.6	99.6	81.7	71.5	68.9
50°	5995.1	2823.9	245.1	206.8	171.1	130.2	102.1	79.2	63.8	53.6	51.1
52.5°	7052.2	3334.6	222.1	191.5	145.5	109.8	81.7	63.8	48.5	40.9	38.3
55°	8170.5	3960.2	194.1	171.1	125.1	91.9	66.4	48.5	35.7	30.6	28.1
57.5°	9296.5	4442.7	171.1	148.1	102.1	74.0	53.6	38.3	25.5	20.4	17.9
60°	9894.0	4488.7	148.1	122.6	81.7	58.7	40.9	28.1	17.9	12.8	10.2
62.5°	9985.9	4080.2	127.7	99.6	66.4	46.0	28.1	20.4	10.2	5.1	5.1
65°	9513.6	3401.0	109.8	79.2	51.1	33.2	20.4	12.8	5.1	2.6	0.0
67°	8747.6	2849.5	94.5	66.4	40.9	25.5	15.3	7.7	2.6	0.0	0.0
67.5°	8451.4	2696.3	89.4	61.3	38.3	23.0	12.8	7.7	2.6	0.0	0.0
70°	6559.4	1925.2	66.4	43.4	28.1	17.9	10.2	5.1	0.0	0.0	0.0
72.5°	4018.9	1126.0	51.1	30.6	20.4	12.8	7.7	2.6	0.0	0.0	0.0
75°	1685.2	388.1	43.4	23.0	15.3	7.7	5.1	2.6	0.0	0.0	0.0
77.5°	439.2	145.5	30.6	15.3	10.2	7.7	5.1	2.6	0.0	0.0	0.0
80°	178.7	66.4	20.4	10.2	10.2	7.7	5.1	2.6	0.0	0.0	0.0
82.5°	117.5	30.6	12.8	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0
85°	89.4	17.9	7.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	38.3	10.2	7.7	5.1	5.1	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)