

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: P383652

Luminaire Tested: **GAN-SA9B-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38413.3 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

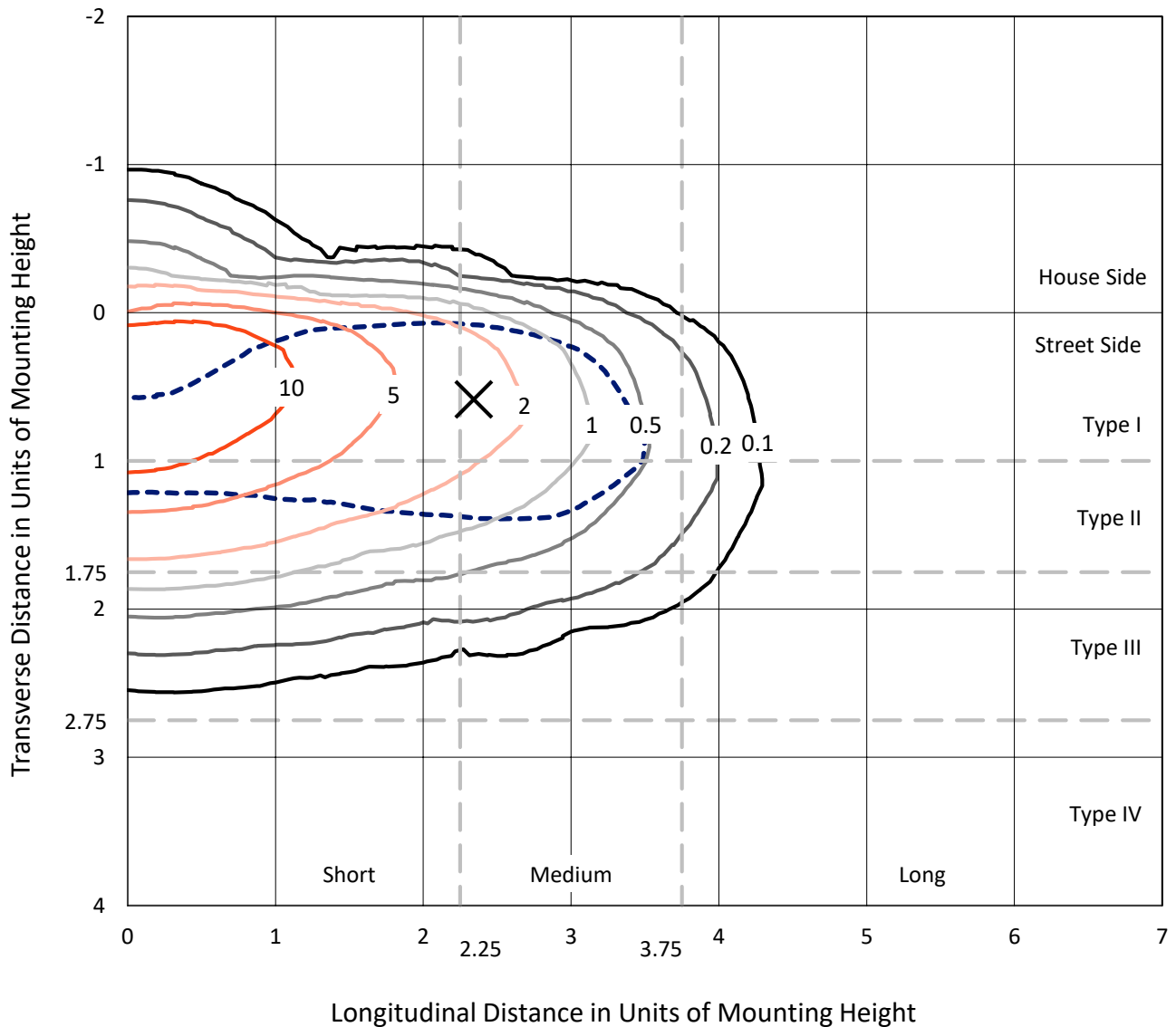
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

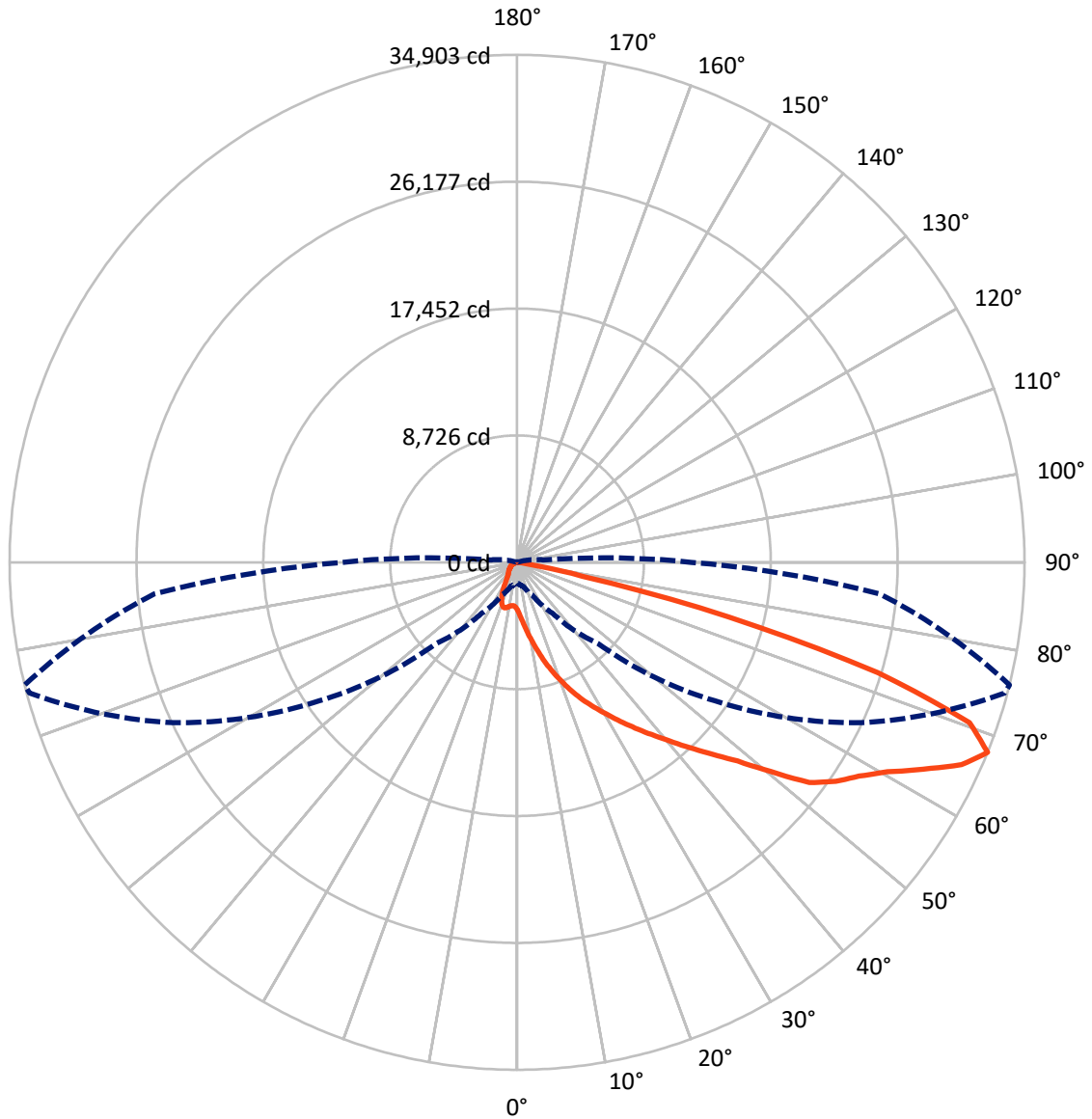
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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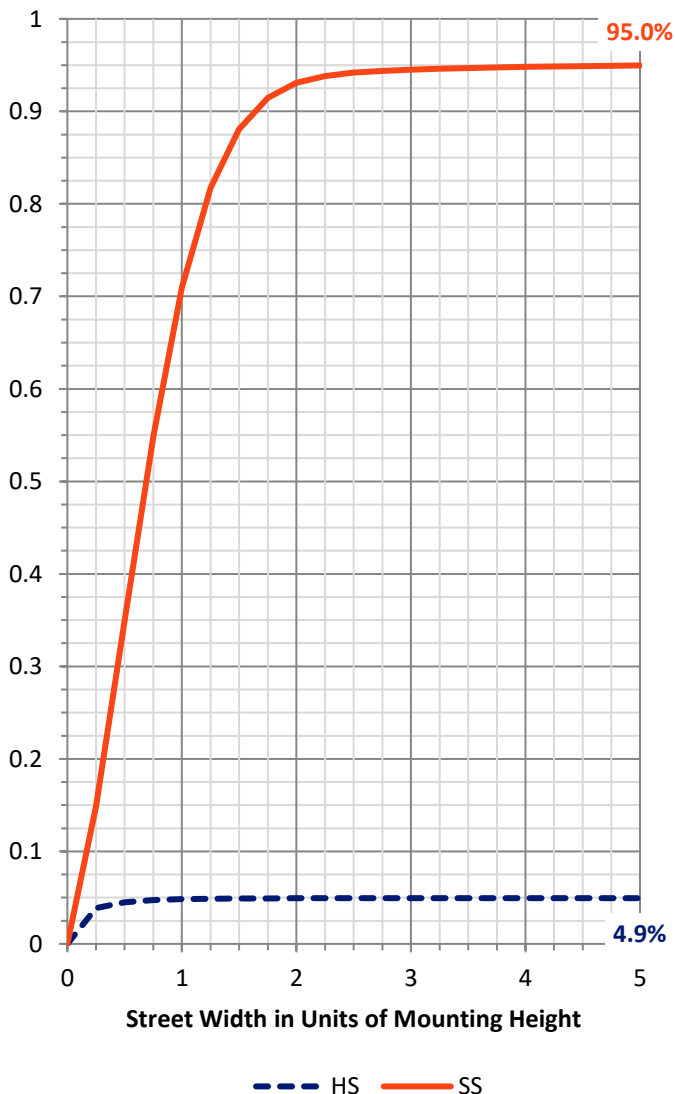
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1907.5	0.0	1907.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	36505.8	0.0	36505.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	38413.3	0.0	38413.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.2	1.1
10°-20°	1606.3	4.2
20°-30°	3268.2	8.5
30°-40°	5672.5	14.8
40°-50°	8014.6	20.9
50°-60°	9088.9	23.7
60°-70°	7538.4	19.6
70°-80°	2730.6	7.1
80°-90°	88.6	0.2
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°	38413.3	100.0
0°-180°	38413.3	100.0

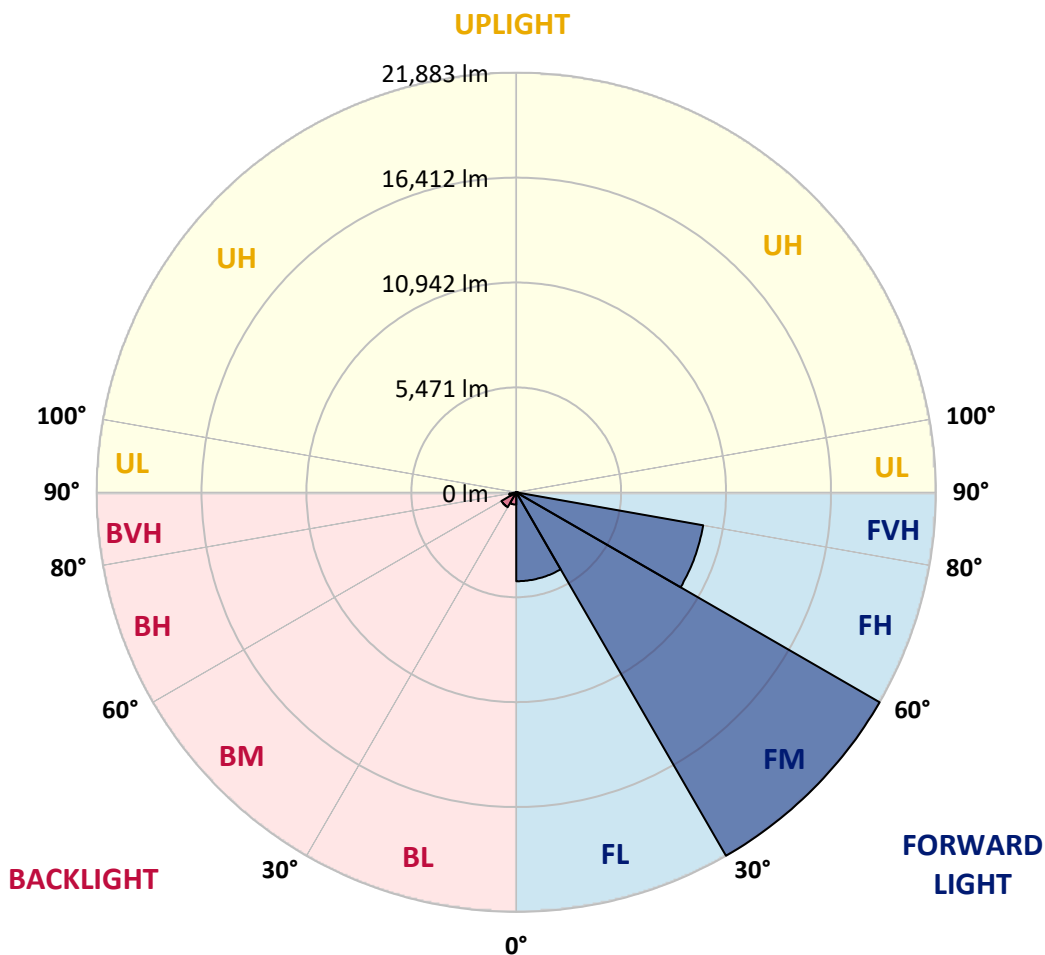


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4636.4	12.1			
FM (30°-60°)	21883.3	57.0			
FH (60°-80°)	9900.4	25.8			G4/12000
FVH (80°-90°)	85.8	0.2			G1/100
BL (0°-30°)	643.3	1.7	B2/1000		
BM (30°-60°)	892.8	2.3	B1/1000		
BH (60°-80°)	368.6	1.0	B1/500		G1/500
BVH (80°-90°)	2.8	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6
2.5°	4864.3	4754.9	4780.1	4709.4	4581.5	4318.9	4095.1	3883.0	3635.6	3627.2	3423.5
5°	6559.2	6466.6	6454.9	6311.8	6079.5	5633.4	5199.2	4704.4	4152.3	4111.9	3679.3
7.5°	8097.6	8023.5	7996.6	7826.6	7394.1	6959.8	6394.2	5667.2	4803.7	4729.7	4024.4
10°	9279.1	9243.8	9250.5	9129.4	8759.1	8355.1	7612.9	6685.4	5542.6	5428.1	4438.5
12.5°	10174.5	10183.0	10243.6	10169.5	9962.5	9662.9	8870.2	7771.1	6360.6	6204.0	4911.4
15°	10832.7	10874.8	10985.8	11078.4	11063.2	10804.1	10076.9	8873.5	7229.1	7055.7	5438.2
17.5°	11258.5	11305.6	11467.3	11672.6	11861.1	11800.5	11241.7	9937.3	8107.7	7907.3	6002.1
20°	11632.1	11687.8	11861.1	12132.1	12483.9	12559.6	12192.7	10969.1	8984.6	8740.5	6584.5
22.5°	12441.7	12440.1	12546.2	12704.4	13039.2	13234.5	13002.3	11926.7	9851.4	9597.3	7178.6
25°	13906.1	13850.5	13813.5	13689.0	13763.1	13884.3	13754.6	12822.2	10723.3	10465.8	7781.1
27.5°	15646.5	15680.2	15380.5	15045.6	14786.4	14661.8	14449.8	13651.9	11561.5	11278.7	8370.2
30°	17482.8	17492.9	17139.5	16711.9	16141.3	15668.4	15301.4	14444.7	12423.3	12115.2	8942.5
32.5°	19139.0	19073.3	18723.3	18140.9	17420.5	16888.7	16126.2	15330.0	13335.5	13037.6	9578.7
35°	20451.8	20374.4	19948.6	19418.4	18671.1	18135.8	17218.5	16213.7	14294.9	14003.8	10216.7
37.5°	21411.2	21320.3	20882.7	20337.4	19692.7	19381.4	18485.9	17174.8	15341.8	15028.8	10888.2
40°	21744.5	21665.4	21391.0	20992.1	20473.7	20403.0	19830.8	18280.6	16481.3	16148.0	11649.0
42.5°	21545.9	21468.4	21370.8	21236.2	21020.7	21088.1	21099.8	19541.3	17747.0	17418.8	12488.9
45°	20758.1	20689.2	20790.2	20987.1	21254.7	21588.0	22257.8	20896.2	19160.9	18810.7	13460.1
47.5°	19598.5	19548.0	19827.4	20318.9	21101.5	22020.6	23316.5	22320.2	20748.1	20423.2	14672.0
50°	17949.0	17940.6	18499.4	19396.5	20600.0	22229.2	24410.6	23939.3	22953.0	22611.3	16356.8
52.5°	15380.5	15397.4	16496.5	17932.2	19719.7	22087.8	25114.2	26019.7	25518.1	25163.0	17816.0
55°	12934.9	13035.9	13815.2	15885.5	18369.8	21562.7	25356.5	26990.8	26933.6	26597.0	18627.3
57.5°	10539.8	10723.3	11474.0	13407.9	16398.9	20352.5	25223.5	27411.6	27987.2	27729.8	19697.8
60°	7944.4	8028.5	8893.7	10701.4	13869.1	18144.2	24259.1	27640.5	29428.1	29249.7	21251.3
62.5°	5054.5	5264.8	6032.3	7776.1	10799.1	15077.6	22633.2	27637.2	31230.7	31328.3	23256.0
65°	2662.7	2908.5	3315.8	4818.8	7421.0	11652.4	20187.6	27378.0	33442.3	33578.7	24822.9
67.5°	1435.7	1506.4	1721.9	2501.1	4303.7	7893.9	16594.1	26098.8	34723.2	34903.3	25041.8
70°	1050.3	1089.0	1169.7	1383.5	2166.2	4584.9	12108.5	23198.7	33072.0	33004.7	22249.5
72.5°	806.3	866.8	927.4	1013.2	1245.5	2447.3	7538.8	18166.1	26388.3	25944.0	16631.1
75°	636.2	646.3	732.2	809.6	934.2	1393.6	3347.8	10580.2	16106.0	15054.0	8624.5
77.5°	508.3	515.1	565.5	632.9	750.6	915.6	1036.8	4162.4	5142.0	4588.2	1871.7
80°	301.3	318.1	420.8	488.1	622.7	577.3	378.7	903.9	802.9	727.1	314.8
82.5°	168.3	181.7	237.4	385.5	434.3	276.0	188.5	244.1	188.5	183.4	89.2
85°	0.0	8.4	153.1	239.0	176.7	60.6	79.1	80.8	55.5	52.2	35.3
87.5°	0.0	0.0	47.1	45.5	6.7	10.1	18.5	26.9	21.9	21.9	18.5
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°	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6	3258.6
2.5°	3322.6	3231.6	3059.9	2891.6	2750.2	2634.1	2529.8	2487.7	2454.0	2448.9	2422.0
5°	3470.7	3287.2	2959.0	2689.7	2509.6	2381.7	2272.2	2204.9	2152.7	2132.5	2114.1
7.5°	3694.5	3416.7	2945.5	2635.8	2420.3	2204.9	2002.9	1784.1	1647.8	1595.6	1565.3
10°	3967.2	3588.4	2996.0	2620.6	2243.6	1789.2	1454.2	1176.5	1063.7	1026.8	1016.6
12.5°	4285.3	3802.2	3083.5	2526.4	1866.6	1270.8	1003.2	908.9	883.7	871.8	871.8
15°	4650.5	4036.2	3145.8	2253.7	1380.2	961.1	868.5	824.7	797.8	782.7	784.4
17.5°	5024.2	4265.1	3115.5	1858.2	1018.3	855.1	786.0	738.9	701.8	686.7	683.4
20°	5401.2	4477.1	2947.1	1383.5	861.8	775.9	698.5	646.3	609.3	594.1	590.8
22.5°	5791.7	4657.3	2650.9	1014.9	774.2	688.4	612.7	560.5	525.1	511.7	504.9
25°	6172.1	4803.7	2236.9	821.3	691.8	606.0	533.6	484.8	452.7	439.3	437.6
27.5°	6527.3	4896.2	1757.2	725.4	619.4	531.9	466.2	422.5	395.5	385.5	383.8
30°	6847.1	4904.7	1299.4	654.8	555.5	467.9	407.4	368.6	345.0	335.0	331.5
32.5°	7170.2	4834.0	945.9	590.8	496.5	412.4	353.4	323.2	306.3	297.9	297.9
35°	7474.8	4670.7	737.2	535.3	439.3	358.6	311.4	289.5	279.4	271.0	271.0
37.5°	7772.7	4436.8	626.1	486.5	385.5	313.1	274.3	260.9	252.4	244.1	244.1
40°	8075.7	4142.2	568.9	441.0	341.7	277.7	244.1	232.2	223.9	217.1	215.5
42.5°	8447.6	3802.2	531.9	398.9	302.9	245.7	215.5	202.0	195.3	188.5	185.2
45°	8878.6	3509.3	501.5	356.8	271.0	218.8	186.9	173.4	163.3	154.8	153.1
47.5°	9499.6	3297.3	461.2	311.4	240.7	190.2	161.6	146.4	131.3	122.9	121.2
50°	10292.4	3122.3	409.0	271.0	210.4	161.6	134.6	116.2	102.7	94.3	94.3
52.5°	10686.2	2893.3	361.9	235.7	176.7	136.4	109.4	87.6	80.8	72.4	72.4
55°	10844.5	2718.3	314.8	200.3	146.4	112.8	85.8	67.4	62.3	57.2	55.5
57.5°	11288.9	2667.8	274.3	170.0	121.2	89.2	65.7	50.5	47.1	40.4	40.4
60°	12004.2	2693.0	237.4	144.8	97.6	69.0	48.8	38.8	35.3	28.6	28.6
62.5°	12776.7	2661.1	200.3	124.5	75.7	50.5	33.6	28.6	28.6	16.9	15.2
65°	12924.9	2369.9	171.7	102.7	58.9	37.1	21.9	18.5	25.2	3.4	0.0
67.5°	11995.7	1837.9	148.1	79.1	43.8	28.6	16.9	8.4	21.9	0.0	0.0
70°	9592.2	1168.1	119.5	57.2	33.6	23.6	13.5	3.4	16.9	0.0	0.0
72.5°	6783.1	678.3	94.3	40.4	28.6	18.5	10.1	0.0	10.1	0.0	0.0
75°	3430.2	361.9	58.9	30.3	21.9	13.5	6.7	0.0	1.7	0.0	0.0
77.5°	742.3	168.3	37.1	21.9	15.2	8.4	3.4	0.0	0.0	0.0	0.0
80°	161.6	74.1	23.6	13.5	8.4	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	58.9	38.8	11.7	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.0	20.2	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.9	6.7	1.7	1.7	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)