

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: P268577

Luminaire Tested: **GAN-AF-06-LED-U-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-AFL-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20458 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 249
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

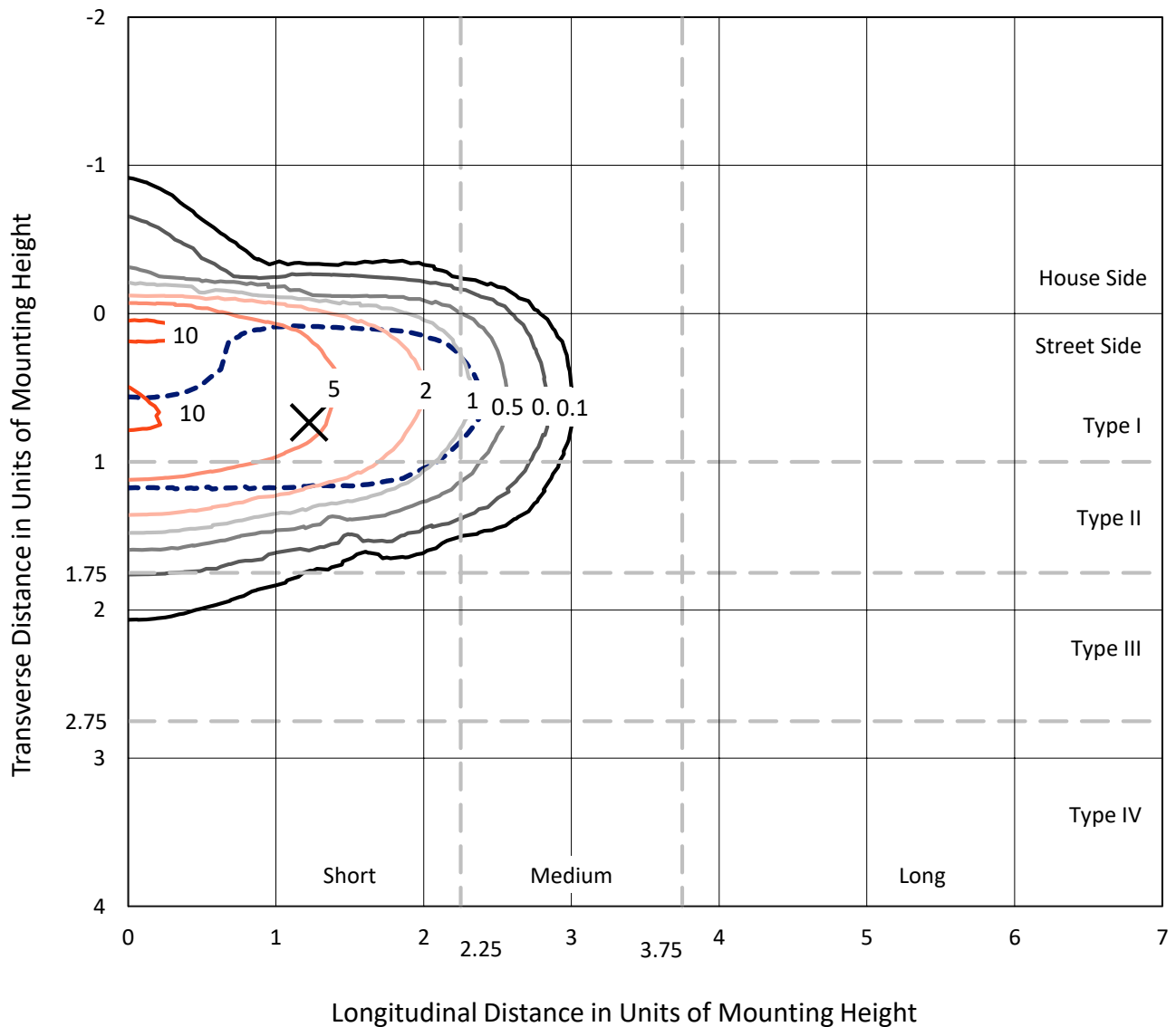


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

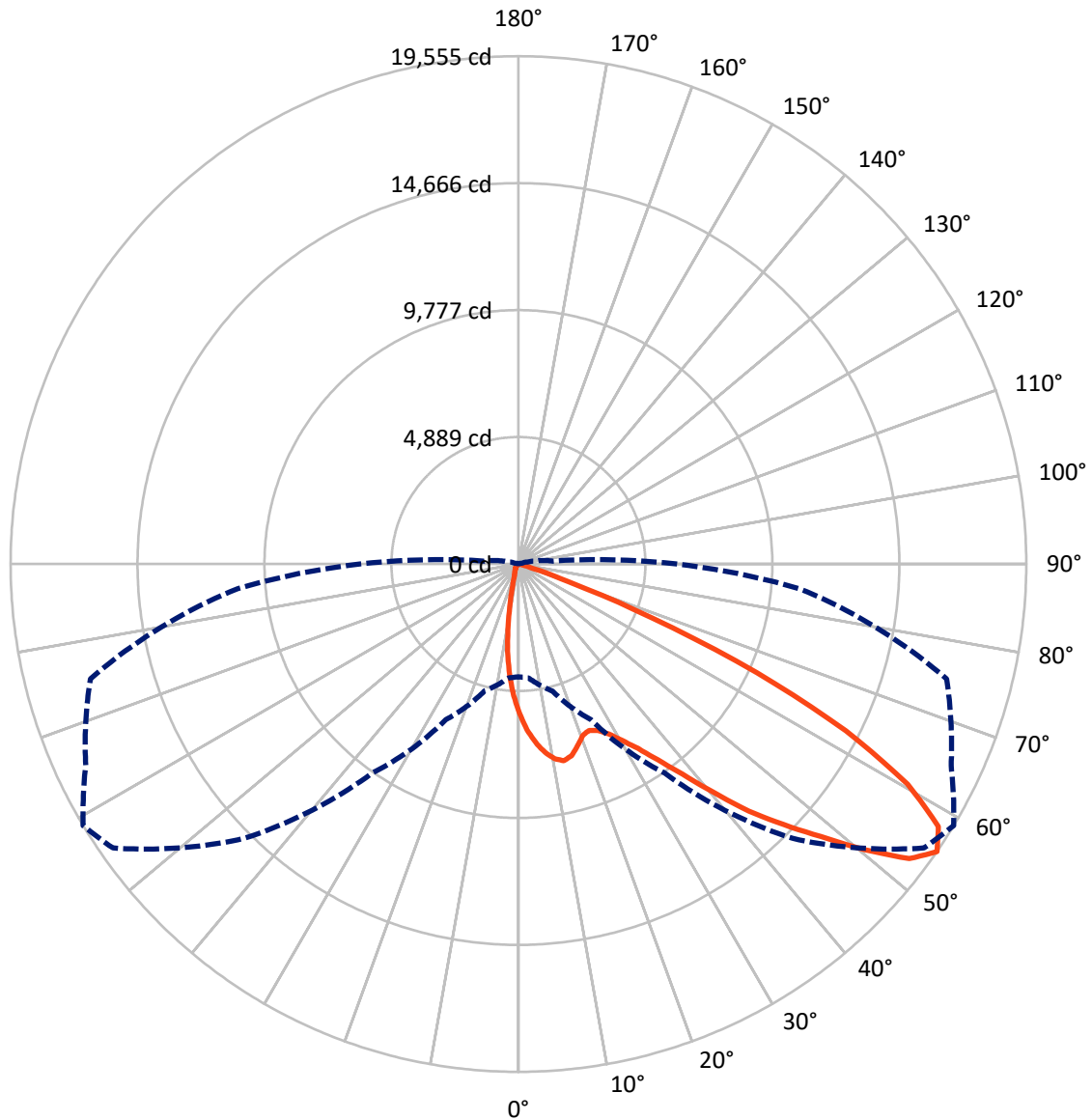


Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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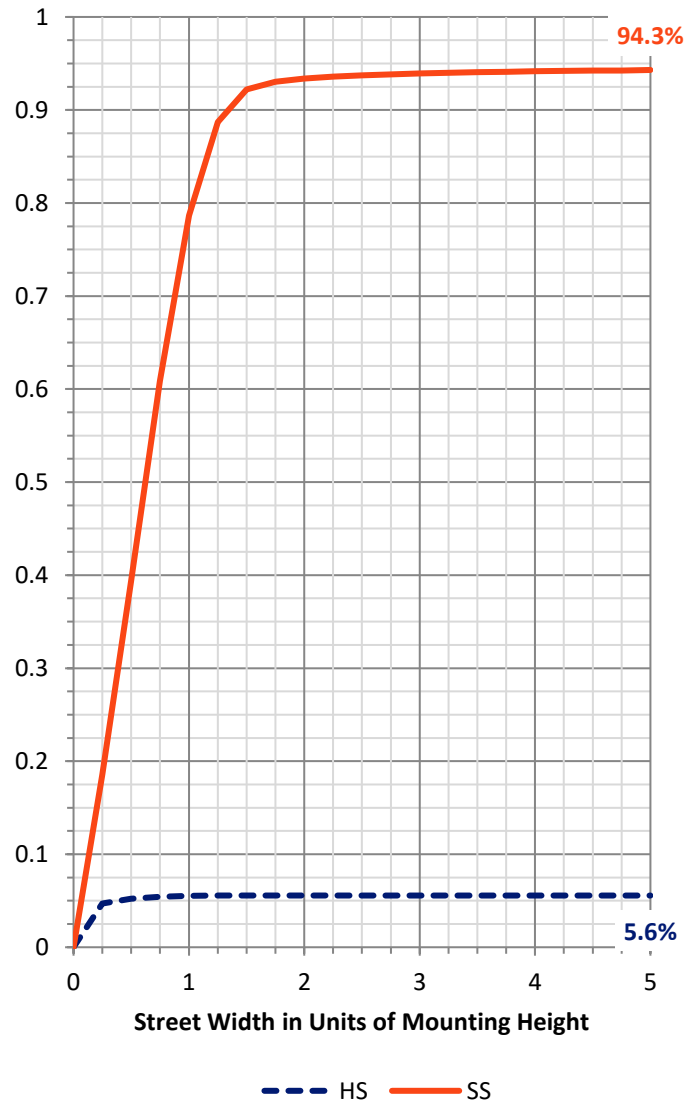
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1142.7	0.0	1142.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	19315.3	0.0	19315.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	20458.0	0.0	20458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.4	2.4
10°-20°	1154.9	5.6
20°-30°	1965.2	9.6
30°-40°	3379.8	16.5
40°-50°	5218.0	25.5
50°-60°	5245.7	25.6
60°-70°	2690.0	13.1
70°-80°	291.5	1.4
80°-90°	30.5	0.1
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°	20458.0	100.0
0°-180°	20458.0	100.0

Coefficient of Utilization



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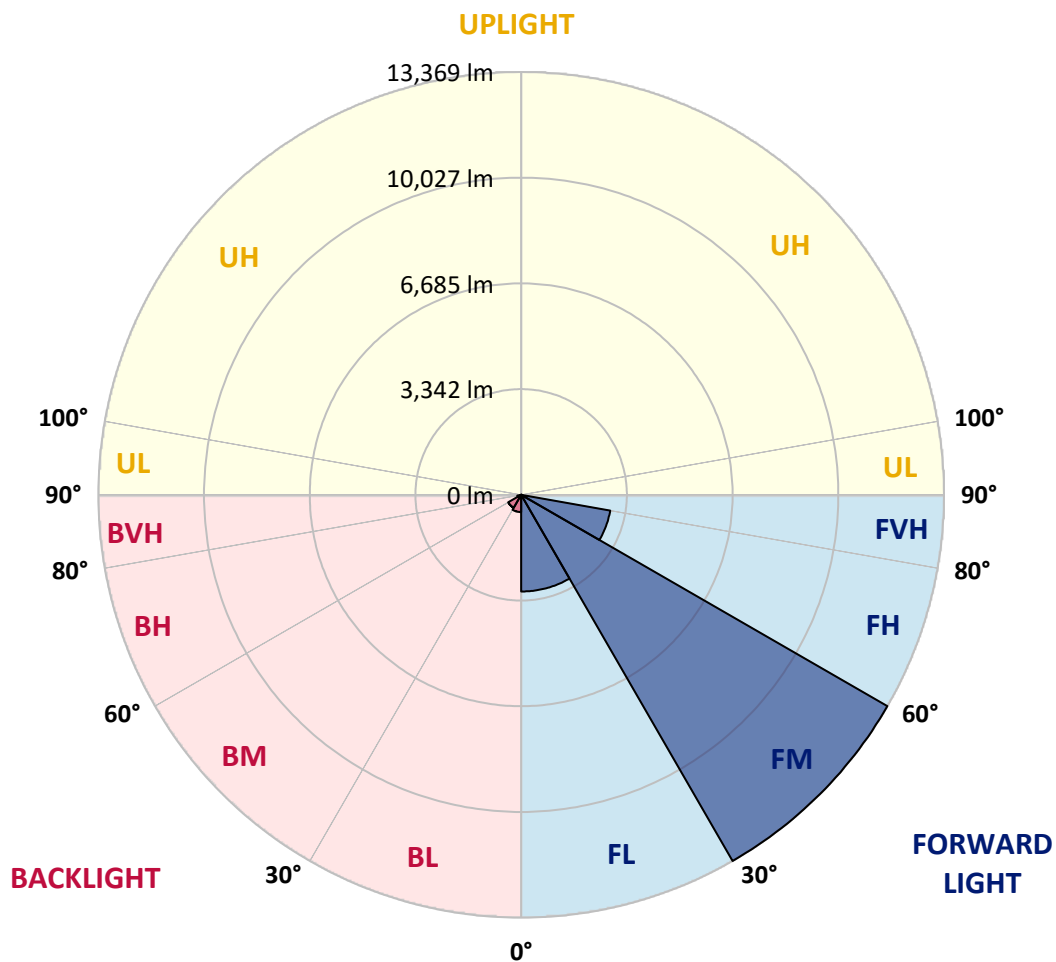
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3057.1	14.9			
FM (30°-60°)	13369.2	65.3			
FH (60°-80°)	2859.2	14.0			G2/5000
FVH (80°-90°)	29.8	0.1			G1/100
BL (0°-30°)	545.4	2.7	B2/1000		
BM (30°-60°)	474.2	2.3	B1/1000		
BH (60°-80°)	122.4	0.6	B1/500		G1/500
BVH (80°-90°)	0.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9
2.5°	6814.1	6741.6	6720.0	6705.4	6639.0	6555.7	6442.1	6389.0	6280.4	6105.3	5890.5
5°	7438.2	7424.9	7376.6	7350.1	7278.8	7160.5	6979.4	6892.5	6720.0	6425.2	6040.2
7.5°	7165.4	7248.7	7315.1	7426.2	7566.2	7561.4	7409.2	7318.8	7125.5	6736.7	6206.7
10°	6111.3	6179.0	6287.6	6540.0	7054.3	7508.3	7686.9	7621.7	7467.3	7022.9	6367.4
12.5°	5905.0	5897.7	5917.0	5990.6	6259.8	6907.0	7639.8	7771.4	7740.1	7284.9	6519.4
15°	6014.8	6006.3	6003.9	6029.3	6094.6	6367.4	7286.2	7664.0	7906.6	7527.5	6648.6
17.5°	6322.7	6286.5	6267.1	6246.6	6227.3	6295.0	6861.2	7363.3	7932.0	7740.1	6756.2
20°	6850.2	6789.8	6718.7	6602.7	6494.0	6460.3	6682.4	7054.3	7841.5	7901.9	6826.1
22.5°	7513.1	7435.8	7312.7	7101.5	6880.5	6752.5	6770.5	6956.6	7706.2	8078.1	6858.6
25°	8257.9	8158.9	7994.7	7701.3	7376.6	7149.7	7031.4	7096.5	7644.7	8284.6	6896.2
27.5°	9056.1	8946.1	8731.3	8331.6	7963.4	7656.8	7415.2	7406.9	7749.7	8555.0	6956.6
30°	9846.9	9830.0	9549.8	9127.3	8639.4	8266.5	7918.6	7874.1	8043.1	8929.2	7075.9
32.5°	10902.0	10775.2	10432.3	9997.6	9435.1	8987.3	8575.5	8471.6	8493.5	9365.1	7260.7
35°	12232.4	12093.6	11610.7	11010.6	10381.6	9852.8	9397.7	9256.5	9203.2	10078.7	7572.3
37.5°	13092.1	13089.7	12786.6	12175.6	11500.8	10917.7	10422.7	10257.2	10149.8	10940.5	8055.1
40°	13115.0	13171.7	13211.6	13205.5	12725.0	12187.8	11748.4	11544.3	11294.4	12092.4	8679.3
42.5°	12411.2	12557.1	12908.6	13504.8	13789.8	13576.2	13205.5	13005.1	12633.3	13325.1	9439.8
45°	11459.8	11561.1	12175.6	13274.3	14367.0	14952.5	14670.0	14311.3	13821.2	14610.8	10122.0
47.5°	11033.6	11051.7	11448.9	12655.1	14410.4	16080.1	16251.5	15668.4	14900.5	15646.7	10655.6
50°	9759.8	9792.5	10340.6	11581.7	13900.9	16612.5	17840.3	17287.4	16077.8	16444.7	10850.1
52.5°	7356.1	7402.0	8097.4	9817.8	12500.5	16385.5	18977.7	18843.7	17367.1	16834.6	10861.0
55°	4340.3	4400.6	5064.6	6608.8	9832.3	14941.6	19062.2	19554.8	18384.9	17065.3	10844.0
57.5°	2027.0	2069.3	2449.6	3404.5	6115.0	11808.7	17789.7	19067.0	18946.2	17187.2	10963.5
60°	1076.9	1088.9	1180.7	1474.1	2763.5	7487.7	15306.2	17217.5	18434.4	17356.2	11109.7
62.5°	823.3	827.0	822.2	857.3	1161.4	3323.6	11569.6	14154.5	16373.4	17229.5	10947.9
65°	713.6	719.5	685.8	677.3	745.0	1185.6	6873.2	10089.5	12866.2	15518.7	9845.7
67.5°	639.9	642.3	601.2	566.2	578.2	641.1	2711.7	5523.4	8516.3	11375.2	7136.3
70°	589.2	586.8	542.0	486.5	470.8	438.3	862.1	2024.7	4069.9	5768.6	3318.9
72.5°	521.6	522.8	501.1	428.6	391.1	306.6	399.7	590.4	1214.6	1571.9	777.6
75°	462.4	456.3	429.7	383.9	322.3	201.6	197.9	263.3	374.2	371.9	167.9
77.5°	334.3	328.4	336.9	315.1	247.6	130.3	99.1	126.8	152.2	147.3	47.2
80°	245.1	241.5	217.3	261.9	218.5	89.3	61.5	67.6	78.5	66.5	14.6
82.5°	167.9	166.6	153.3	144.8	124.3	54.3	38.6	42.3	50.8	37.4	7.2
85°	26.6	30.3	111.1	88.2	73.7	24.2	26.6	28.9	33.7	20.5	2.4
87.5°	0.0	0.0	51.9	45.9	14.6	9.6	15.7	16.9	16.9	10.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9
2.5°	5780.7	5659.9	5436.5	5205.9	4992.2	4737.5	4562.4	4430.8	4278.6	4237.7	4327.0
5°	5820.4	5592.3	5111.7	4589.0	4097.6	3553.1	3136.6	2807.1	2508.7	2407.4	2499.2
7.5°	5883.2	5544.0	4760.4	3899.6	3044.9	2194.9	1612.9	1230.3	986.3	913.9	952.6
10°	5946.1	5473.9	4353.5	3083.4	1914.7	1068.4	695.4	555.3	503.4	492.6	498.6
12.5°	5998.0	5379.8	3857.3	2192.5	1023.8	572.3	455.1	432.3	425.0	425.0	427.5
15°	6029.3	5237.3	3269.4	1394.3	589.2	432.3	397.2	390.0	390.0	391.1	393.5
17.5°	6025.7	5056.2	2625.8	843.9	440.7	382.7	362.1	356.2	354.9	357.3	358.6
20°	5980.9	4819.5	1980.0	556.6	383.9	348.9	328.4	317.6	316.4	318.7	321.1
22.5°	5896.5	4527.4	1416.2	428.6	346.4	316.4	291.1	281.3	281.3	283.8	286.1
25°	5793.9	4170.0	968.3	363.5	312.7	281.3	257.2	248.7	251.2	257.2	258.4
27.5°	5665.9	3768.0	658.0	311.5	271.6	246.2	228.2	222.2	228.2	236.7	239.0
30°	5556.0	3349.2	469.6	269.2	230.5	212.4	201.6	201.6	210.1	225.7	229.3
32.5°	5471.5	2943.3	362.1	237.8	200.4	184.7	178.8	184.7	197.9	213.6	217.3
35°	5460.6	2608.9	306.6	212.4	178.8	163.0	160.5	171.4	184.7	196.8	199.2
37.5°	5544.0	2299.9	276.5	192.0	159.4	144.8	142.6	155.8	169.1	183.6	187.1
40°	5702.1	2057.3	254.7	172.7	143.6	128.0	123.2	132.8	150.9	170.1	175.1
42.5°	5907.3	1856.8	230.5	153.3	128.0	106.2	100.3	111.1	130.3	150.9	156.9
45°	6102.9	1684.2	204.1	131.6	107.4	82.0	79.7	94.1	103.8	124.3	129.1
47.5°	6210.4	1532.1	181.1	107.4	83.4	66.5	66.5	70.0	79.7	103.8	108.7
50°	6174.2	1410.1	156.9	79.7	57.9	50.8	50.8	49.4	64.0	83.4	87.0
52.5°	6101.7	1340.1	135.3	61.5	39.9	36.2	32.6	36.2	44.6	53.1	54.3
55°	6090.9	1328.1	113.5	49.4	27.8	24.2	18.1	18.1	18.1	16.9	14.6
57.5°	6175.4	1347.4	95.4	39.9	20.5	15.7	9.6	0.0	0.0	0.0	0.0
60°	6262.4	1367.8	82.0	27.8	14.6	8.4	1.2	0.0	0.0	0.0	0.0
62.5°	6117.4	1321.9	68.8	16.9	10.9	3.7	0.0	0.0	0.0	0.0	0.0
65°	5373.8	1125.1	54.3	12.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3822.4	753.4	36.2	7.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1744.6	315.1	22.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	373.1	97.7	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	76.0	71.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	24.2	112.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.6	80.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)