

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: P191723

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191723
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-05-LED-U-AFL-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 19677 lumens
Efficiency: N/A
Efficacy: 93.7 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): 210
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

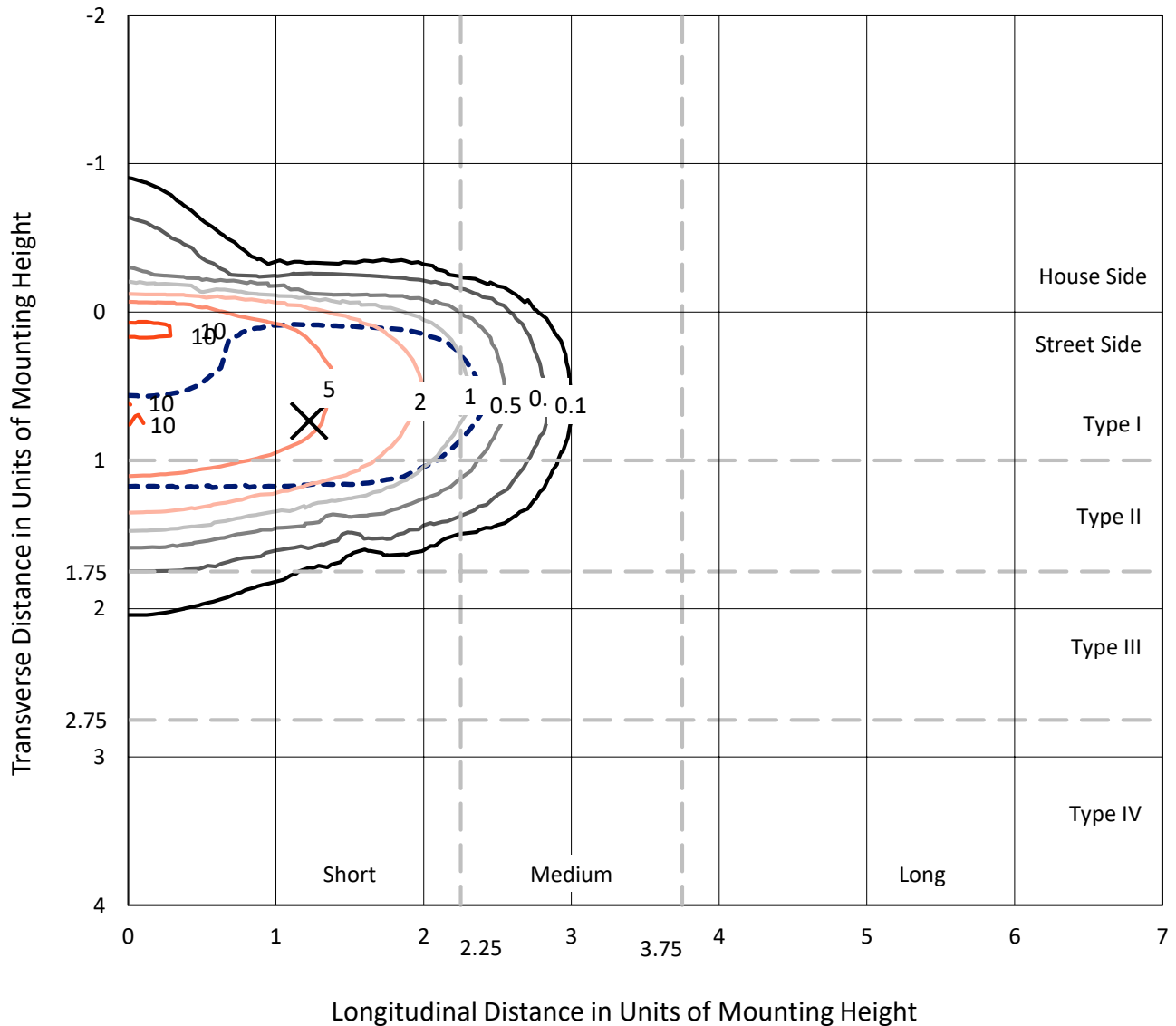


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

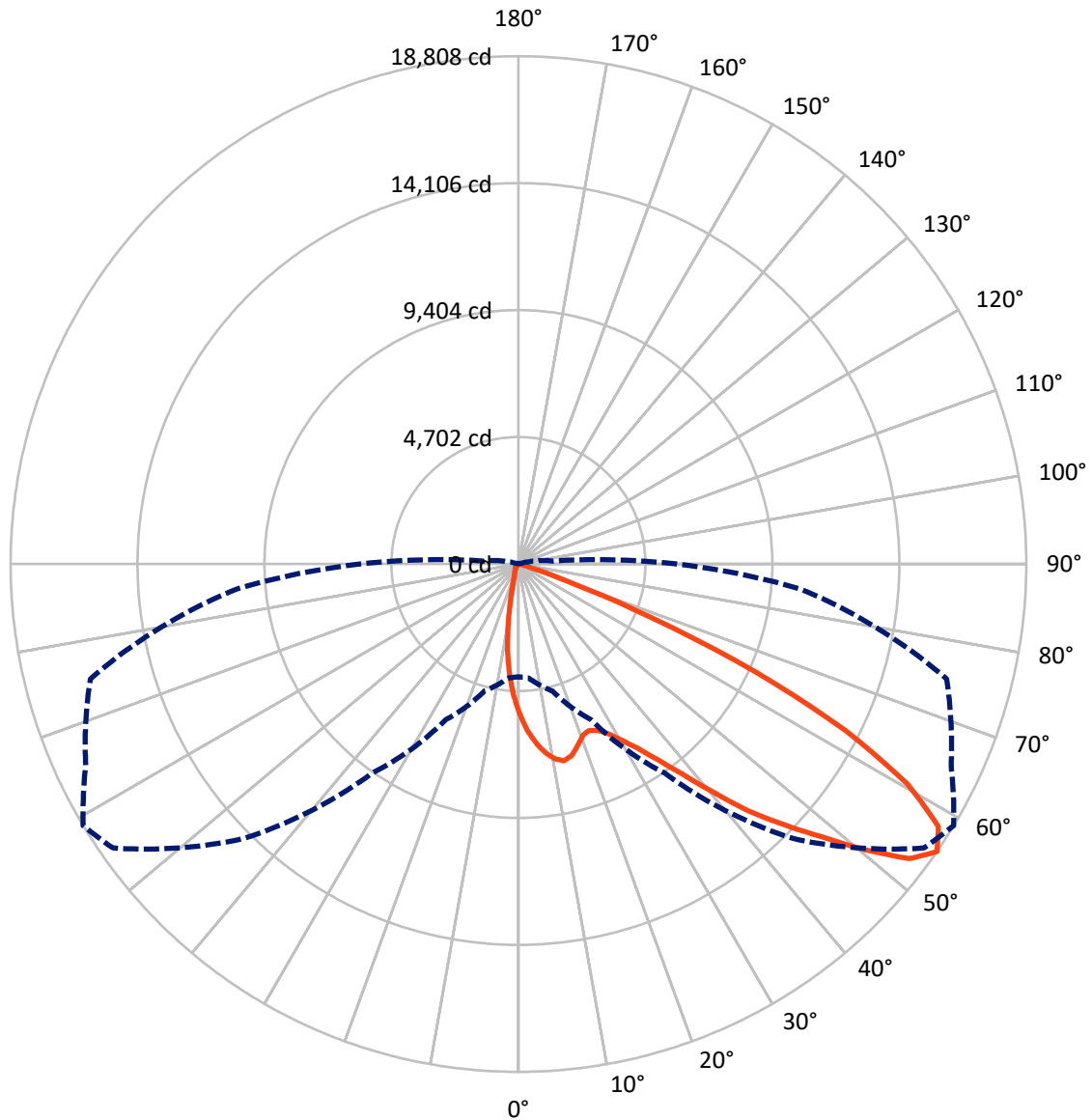


Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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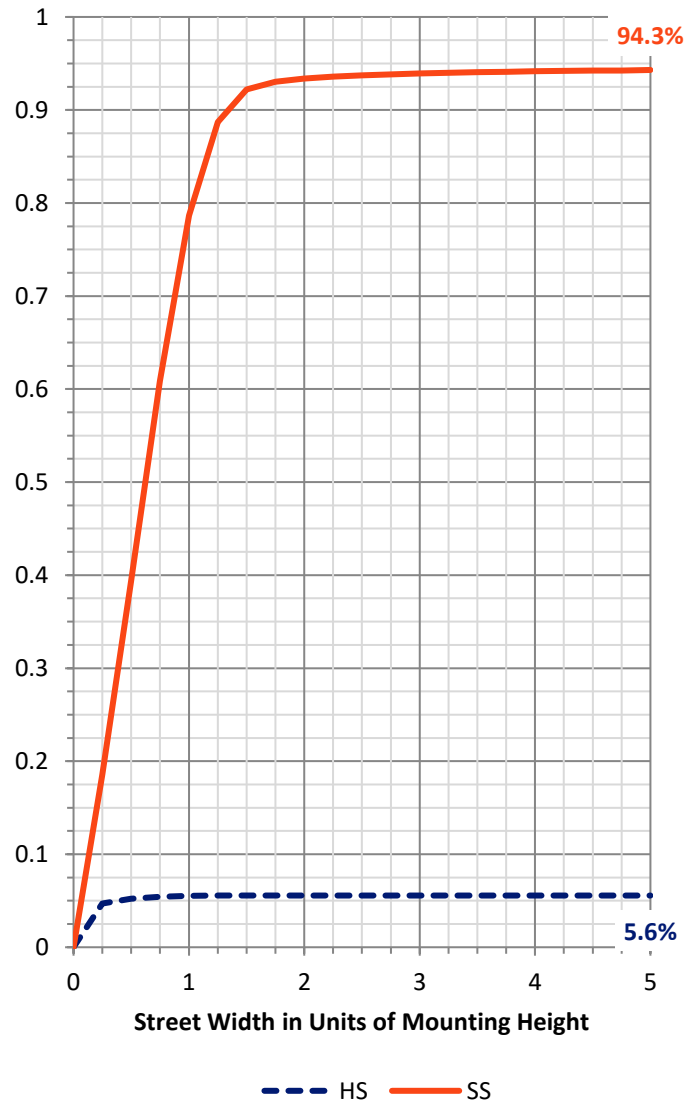
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1099.1	0.0	1099.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	18577.9	0.0	18577.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	19677.0	0.0	19677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.9	2.4
10°-20°	1110.8	5.6
20°-30°	1890.2	9.6
30°-40°	3250.7	16.5
40°-50°	5018.8	25.5
50°-60°	5045.5	25.6
60°-70°	2587.4	13.1
70°-80°	280.4	1.4
80°-90°	29.3	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°	19677.0	100.0
0°-180°	19677.0	100.0

Coefficient of Utilization



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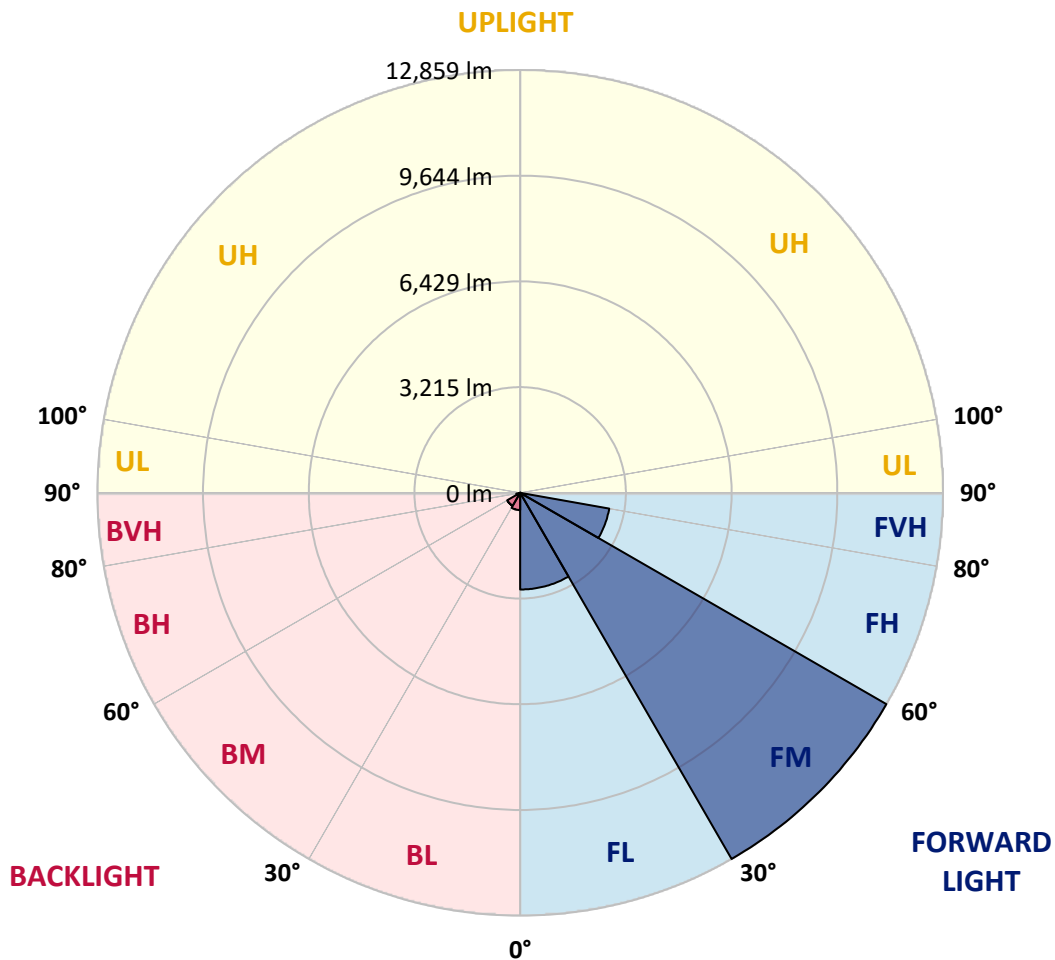
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2940.4	14.9			
FM	(30°-60°)	12858.8	65.3			
FH	(60°-80°)	2750.0	14.0			G2/5000
FVH	(80°-90°)	28.7	0.1			G1/100
BL	(0°-30°)	524.6	2.7	B2/1000		
BM	(30°-60°)	456.1	2.3	B1/1000		
BH	(60°-80°)	117.8	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°	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0
2.5°	6553.9	6484.2	6463.3	6449.4	6385.5	6305.4	6196.3	6145.2	6040.7	5872.3	5665.6
5°	7154.3	7141.5	7095.0	7069.5	7001.0	6887.2	6713.0	6629.4	6463.3	6180.0	5809.6
7.5°	6891.8	6971.9	7035.8	7142.6	7277.3	7272.7	7126.4	7039.3	6853.5	6479.6	5969.8
10°	5878.1	5943.1	6047.6	6290.3	6785.0	7221.6	7393.5	7330.8	7182.1	6754.8	6124.3
12.5°	5679.5	5672.5	5691.1	5762.0	6020.9	6643.3	7348.2	7474.8	7444.6	7006.8	6270.6
15°	5785.2	5777.1	5774.7	5799.1	5861.8	6124.3	7007.9	7371.4	7604.8	7240.2	6394.8
17.5°	6081.3	6046.5	6027.9	6008.1	5989.6	6054.6	6599.2	7082.3	7629.2	7444.6	6498.2
20°	6588.7	6530.7	6462.2	6350.7	6246.2	6213.7	6427.3	6785.0	7542.1	7600.2	6565.5
22.5°	7226.3	7151.9	7033.5	6830.3	6617.8	6494.7	6512.1	6690.9	7412.0	7769.7	6596.9
25°	7942.7	7847.5	7689.6	7407.4	7095.0	6876.7	6762.9	6825.6	7352.8	7968.3	6632.9
27.5°	8710.3	8604.6	8397.9	8013.6	7659.4	7364.4	7132.2	7124.1	7453.9	8228.4	6690.9
30°	9470.9	9454.6	9185.2	8778.8	8309.7	7950.9	7616.4	7573.5	7736.0	8588.4	6805.9
32.5°	10485.8	10363.9	10034.1	9616.0	9074.9	8644.1	8248.1	8148.3	8169.2	9007.6	6983.6
35°	11765.4	11631.9	11167.4	10590.3	9985.3	9476.7	9038.9	8903.0	8852.0	9693.8	7283.2
37.5°	12592.2	12589.9	12298.4	11710.9	11061.8	10500.9	10024.8	9865.7	9762.4	10522.9	7747.6
40°	12614.3	12668.9	12707.2	12701.4	12239.2	11722.5	11299.8	11103.6	10863.2	11630.7	8348.0
42.5°	11937.3	12077.8	12415.7	12989.4	13263.4	13057.9	12701.4	12508.6	12151.0	12816.4	9079.6
45°	11022.3	11119.8	11710.9	12767.6	13818.5	14381.7	14109.9	13765.1	13293.6	14053.0	9735.6
47.5°	10612.4	10629.8	11011.8	12171.9	13860.3	15466.2	15631.1	15070.3	14331.7	15049.4	10248.9
50°	9387.3	9418.6	9945.8	11139.6	13370.3	15978.3	17159.3	16627.5	15463.9	15816.9	10435.9
52.5°	7075.3	7119.4	7788.3	9443.0	12023.2	15760.0	18253.2	18124.3	16704.1	16192.0	10446.3
55°	4174.6	4232.6	4871.3	6356.5	9457.0	14371.2	18334.5	18808.2	17683.0	16413.8	10430.0
57.5°	1949.7	1990.3	2356.1	3274.6	5881.6	11357.9	17110.5	18339.1	18223.0	16531.1	10545.0
60°	1035.8	1047.4	1135.7	1417.8	2658.0	7201.9	14721.9	16560.1	17730.6	16693.7	10685.5
62.5°	791.9	795.4	790.8	824.5	1117.1	3196.8	11127.9	13614.1	15748.4	16571.7	10529.9
65°	686.3	692.1	659.6	651.4	716.5	1140.3	6610.8	9704.3	12375.1	14926.3	9469.7
67.5°	615.4	617.8	578.3	544.6	556.2	616.6	2608.1	5312.6	8191.2	10941.0	6864.0
70°	566.7	564.4	521.4	468.0	452.9	421.5	829.1	1947.4	3914.5	5548.3	3192.2
72.5°	501.6	502.8	481.9	412.2	376.2	294.9	384.4	567.8	1168.2	1511.9	747.8
75°	444.7	438.9	413.4	369.3	310.0	193.9	190.4	253.1	360.0	357.7	161.4
77.5°	321.7	315.9	324.0	303.1	238.0	125.4	95.2	121.9	146.3	141.7	45.3
80°	235.7	232.2	209.0	252.0	210.2	85.9	59.2	65.0	75.5	63.9	13.9
82.5°	161.4	160.2	147.5	139.3	119.6	52.3	37.2	40.6	48.8	36.0	7.0
85°	25.5	29.0	106.8	84.8	70.8	23.2	25.5	27.9	32.5	19.7	2.3
87.5°	0.0	0.0	49.9	44.1	13.9	9.3	15.1	16.3	16.3	10.5	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°	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0	5539.0
2.5°	5559.9	5443.8	5229.0	5007.2	4801.6	4556.6	4388.2	4261.7	4115.4	4075.9	4161.8
5°	5598.2	5378.8	4916.6	4413.8	3941.2	3417.5	3016.8	2699.8	2413.0	2315.5	2403.7
7.5°	5658.6	5332.3	4578.7	3750.7	2928.6	2111.1	1551.4	1183.3	948.7	879.0	916.2
10°	5719.0	5265.0	4187.3	2965.7	1841.7	1027.7	668.9	534.2	484.2	473.8	479.6
12.5°	5768.9	5174.4	3710.1	2108.8	984.7	550.4	437.8	415.7	408.7	408.7	411.1
15°	5799.1	5037.4	3144.6	1341.2	566.7	415.7	382.0	375.1	375.1	376.2	378.6
17.5°	5795.6	4863.2	2525.6	811.7	423.8	368.1	348.4	342.6	341.4	343.7	344.9
20°	5752.7	4635.6	1904.4	535.3	369.3	335.6	315.9	305.4	304.2	306.6	308.9
22.5°	5671.4	4354.6	1362.1	412.2	333.3	304.2	279.9	270.6	270.6	272.9	275.2
25°	5572.7	4010.8	931.3	349.5	300.8	270.6	247.3	239.2	241.5	247.3	248.5
27.5°	5449.6	3624.2	632.9	299.6	261.3	236.9	219.5	213.7	219.5	227.6	229.9
30°	5343.9	3221.2	451.7	259.0	221.8	204.4	193.9	193.9	202.1	217.1	220.6
32.5°	5262.6	2831.0	348.4	228.8	192.8	177.7	171.9	177.7	190.4	205.5	209.0
35°	5252.2	2509.4	294.9	204.4	171.9	156.8	154.4	164.9	177.7	189.3	191.6
37.5°	5332.3	2212.1	265.9	184.6	153.3	139.3	137.0	149.8	162.6	176.5	180.0
40°	5484.4	1978.7	245.0	166.1	138.2	123.1	118.4	127.7	145.2	163.7	168.4
42.5°	5681.8	1786.0	221.8	147.5	123.1	102.2	96.4	106.8	125.4	145.2	151.0
45°	5870.0	1619.9	196.2	126.6	103.3	79.0	76.6	90.6	99.9	119.6	124.3
47.5°	5973.3	1473.6	174.2	103.3	80.1	63.9	63.9	67.4	76.6	99.9	104.5
50°	5938.5	1356.3	151.0	76.6	55.7	48.8	48.8	47.6	61.5	80.1	83.6
52.5°	5868.8	1289.0	130.1	59.2	38.3	34.8	31.4	34.8	43.0	51.1	52.3
55°	5858.3	1277.3	109.2	47.6	26.7	23.2	17.4	17.4	17.4	16.3	13.9
57.5°	5939.6	1295.9	91.7	38.3	19.7	15.1	9.3	0.0	0.0	0.0	0.0
60°	6023.2	1315.7	79.0	26.7	13.9	8.1	1.2	0.0	0.0	0.0	0.0
62.5°	5883.9	1271.5	66.2	16.3	10.5	3.5	0.0	0.0	0.0	0.0	0.0
65°	5168.6	1082.3	52.3	11.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3676.4	724.6	34.8	7.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1678.0	303.1	22.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	358.8	94.1	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	73.2	68.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.2	108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.9	77.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.3	11.6	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)