

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: P268420

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268420
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-04-LED-U-AFL-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 17076.8 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

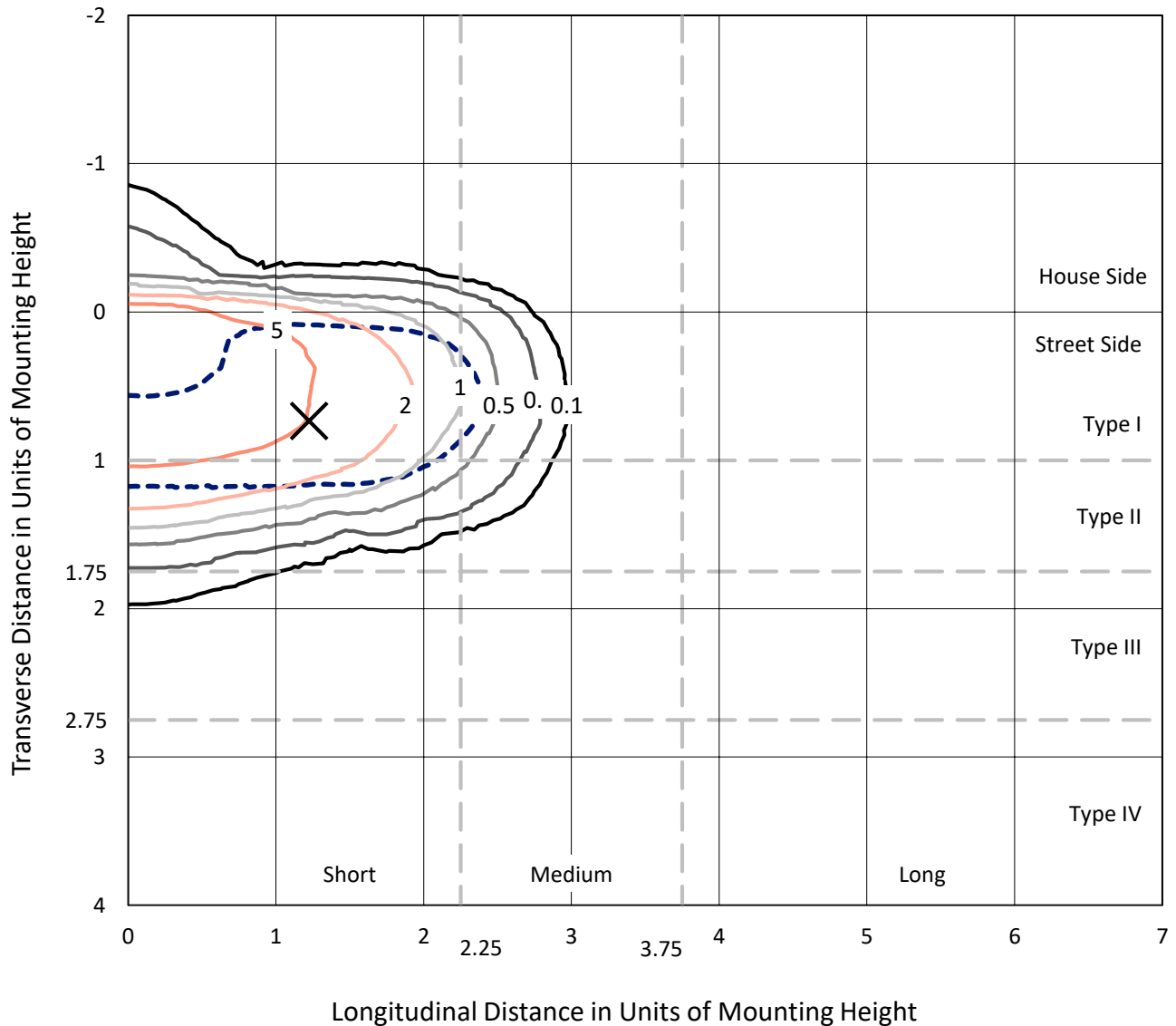
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

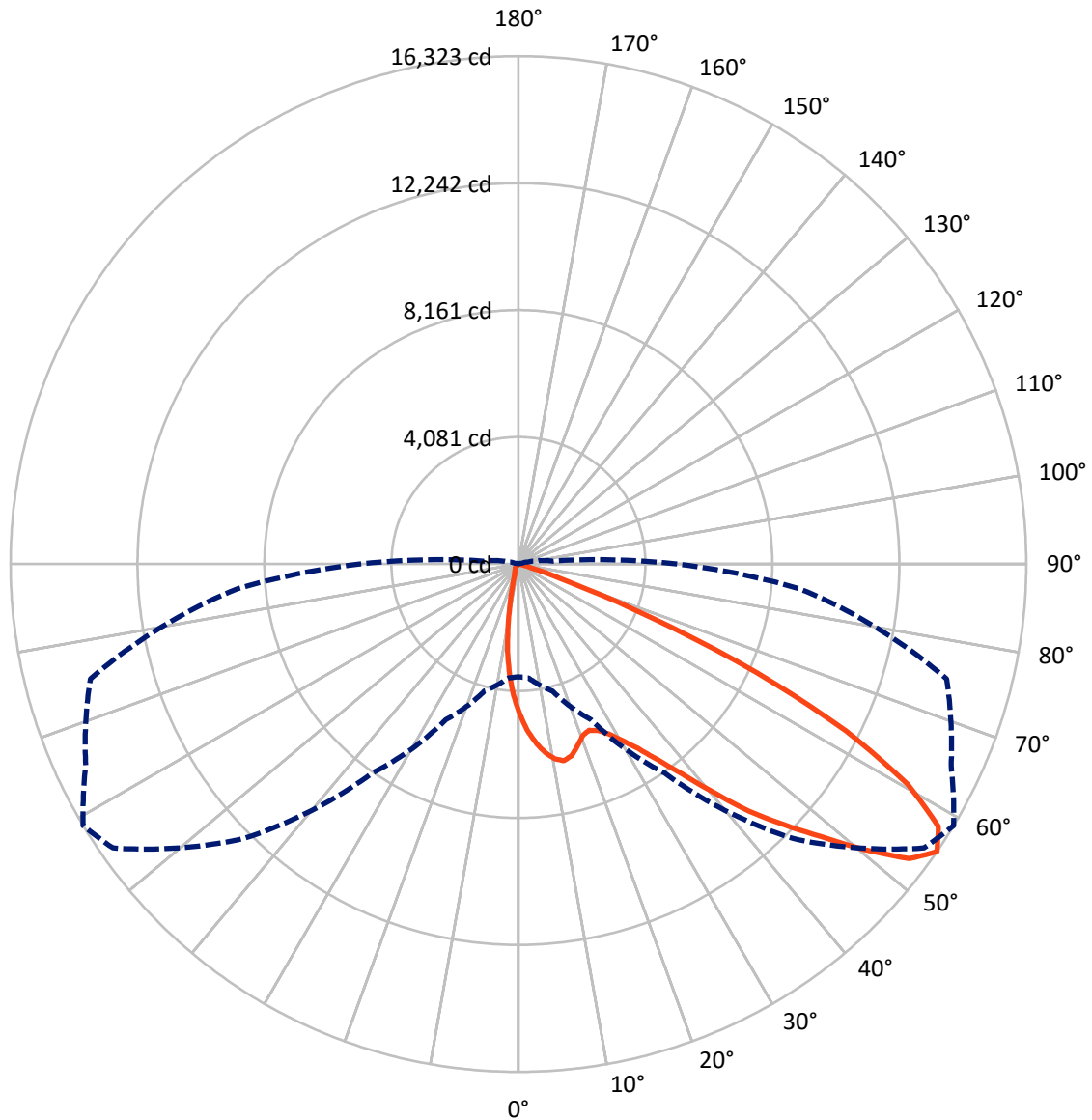
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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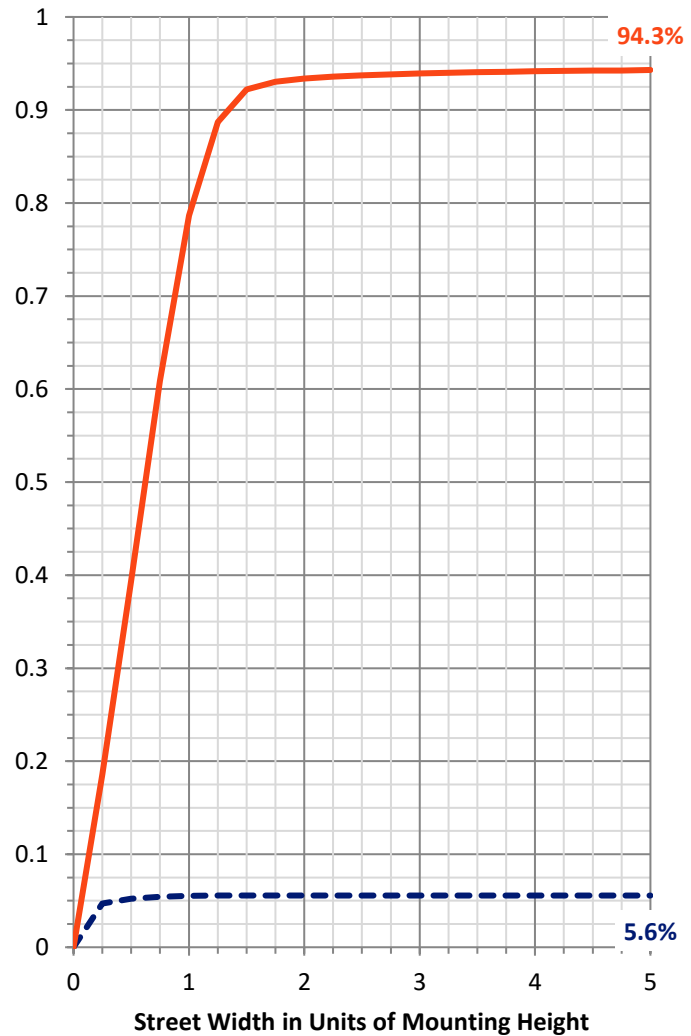
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	953.8	0.0	953.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	16123.0	0.0	16123.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	17076.8	0.0	17076.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.6	2.4
10°-20°	964.0	5.6
20°-30°	1640.4	9.6
30°-40°	2821.2	16.5
40°-50°	4355.6	25.5
50°-60°	4378.7	25.6
60°-70°	2245.5	13.1
70°-80°	243.3	1.4
80°-90°	25.4	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°	17076.8	100.0
0°-180°	17076.8	100.0



--- HS — SS

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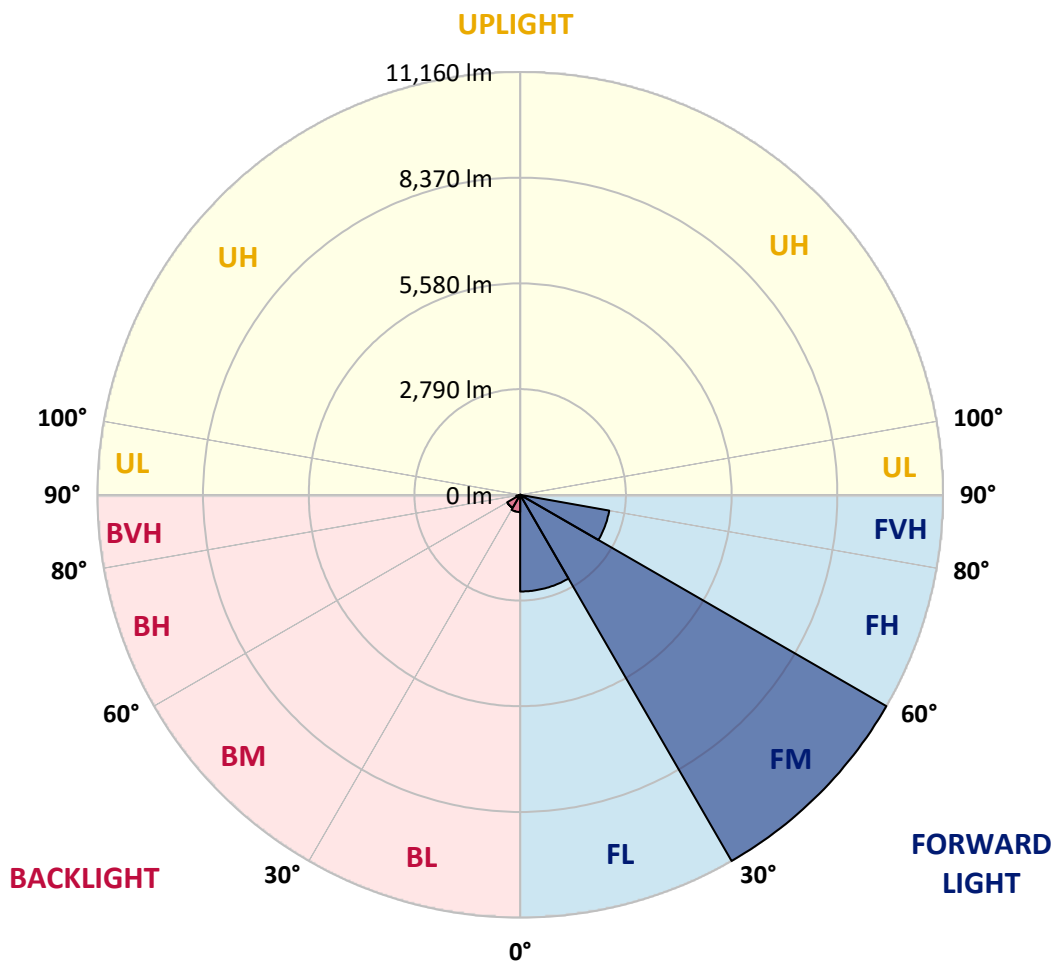
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2551.8	14.9			
FM	(30°-60°)	11159.6	65.3			
FH	(60°-80°)	2386.6	14.0			G2/5000
FVH	(80°-90°)	24.9	0.1			G1/100
BL	(0°-30°)	455.3	2.7	B1/500		
BM	(30°-60°)	395.8	2.3	B1/1000		
BH	(60°-80°)	102.2	0.6	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1
2.5°	5687.9	5627.4	5609.2	5597.2	5541.7	5472.1	5377.4	5333.1	5242.4	5096.3	4917.0
5°	6208.8	6197.8	6157.4	6135.3	6075.9	5977.1	5825.9	5753.4	5609.2	5363.3	5041.8
7.5°	5981.2	6050.7	6106.0	6198.8	6315.8	6311.6	6184.7	6109.2	5947.9	5623.4	5181.0
10°	5101.4	5157.8	5248.4	5459.1	5888.4	6267.4	6416.5	6362.1	6233.1	5862.2	5315.0
12.5°	4929.0	4922.9	4939.2	5000.5	5225.4	5765.4	6377.2	6487.0	6460.8	6080.8	5441.9
15°	5020.6	5013.6	5011.6	5032.8	5087.2	5315.0	6081.9	6397.3	6599.8	6283.5	5549.8
17.5°	5277.7	5247.4	5231.3	5214.2	5198.0	5254.5	5727.1	6146.5	6621.0	6460.8	5639.5
20°	5718.2	5667.6	5608.2	5511.6	5420.8	5392.5	5577.9	5888.4	6545.5	6595.9	5697.9
22.5°	6271.3	6206.8	6104.1	5927.6	5743.3	5636.4	5651.5	5806.7	6432.7	6742.9	5725.2
25°	6893.1	6810.5	6673.5	6428.5	6157.4	5968.0	5869.3	5923.7	6381.2	6915.3	5756.3
27.5°	7559.2	7467.6	7288.2	6954.6	6647.3	6391.4	6189.7	6182.7	6468.9	7141.0	5806.7
30°	8219.3	8205.3	7971.5	7618.7	7211.7	6900.2	6610.0	6572.7	6713.8	7453.4	5906.5
32.5°	9100.2	8994.3	8708.1	8345.3	7875.7	7501.8	7158.1	7071.5	7089.7	7817.3	6060.8
35°	10210.8	10094.9	9691.8	9190.9	8665.8	8224.4	7844.4	7726.5	7682.2	8412.8	6320.7
37.5°	10928.2	10926.3	10673.3	10163.3	9599.9	9113.2	8700.1	8561.9	8472.4	9132.3	6723.9
40°	10947.4	10994.7	11028.0	11023.0	10621.9	10173.5	9806.5	9636.3	9427.7	10093.9	7244.8
42.5°	10359.9	10481.9	10775.1	11272.9	11510.7	11332.4	11023.0	10855.7	10545.4	11122.8	7879.8
45°	9565.7	9650.4	10163.3	11080.5	11992.5	12481.2	12245.3	11946.1	11536.9	12196.0	8449.2
47.5°	9210.1	9225.1	9556.7	10563.3	12028.8	13422.5	13565.6	13078.9	12437.9	13060.6	8894.6
50°	8146.8	8173.9	8631.5	9667.5	11603.4	13866.9	14891.8	14430.3	13420.5	13726.8	9056.8
52.5°	6140.4	6178.6	6759.0	8195.1	10434.4	13677.5	15841.2	15729.2	14496.8	14052.4	9065.9
55°	3623.0	3673.3	4227.7	5516.5	8207.3	12472.2	15911.7	16322.8	15346.4	14244.9	9051.9
57.5°	1692.0	1727.4	2044.7	2841.9	5104.3	9857.0	14849.4	15915.7	15814.9	14346.7	9151.6
60°	898.9	909.1	985.6	1230.5	2306.8	6250.1	12776.6	14371.9	15387.6	14487.7	9273.6
62.5°	687.4	690.3	686.2	715.5	969.5	2774.3	9657.5	11815.0	13667.4	14381.9	9138.5
65°	595.5	600.6	572.4	565.4	621.7	989.7	5737.2	8421.9	10739.7	12953.9	8218.4
67.5°	534.1	536.1	501.9	472.7	482.7	535.1	2263.5	4610.6	7108.7	9495.3	5956.9
70°	491.8	489.8	452.4	406.2	393.0	365.8	719.5	1690.0	3397.2	4815.2	2770.4
72.5°	435.4	436.3	418.3	357.7	326.5	255.9	333.6	492.8	1013.7	1312.2	648.9
75°	386.0	380.9	358.8	320.4	269.1	168.3	165.3	219.6	312.4	310.4	140.0
77.5°	279.2	274.2	281.2	263.1	206.6	108.9	82.6	105.8	127.0	123.0	39.3
80°	204.5	201.6	181.4	218.6	182.4	74.6	51.5	56.5	65.4	55.4	12.0
82.5°	140.0	139.1	128.0	120.9	103.8	45.4	32.2	35.3	42.3	31.3	6.1
85°	22.2	25.2	92.7	73.7	61.4	20.1	22.2	24.2	28.1	17.2	2.1
87.5°	0.0	0.0	43.4	38.3	12.0	8.1	13.0	14.2	14.2	9.1	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°	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1
2.5°	4825.2	4724.5	4538.0	4345.6	4167.1	3954.5	3808.4	3698.5	3571.5	3537.3	3611.8
5°	4858.5	4668.0	4266.9	3830.6	3420.3	2965.8	2618.2	2343.0	2094.2	2009.5	2086.0
7.5°	4910.9	4627.7	3973.7	3255.1	2541.6	1832.2	1346.4	1026.9	823.3	762.9	795.1
10°	4963.2	4569.1	3634.1	2573.9	1598.4	891.8	580.5	463.5	420.2	411.2	416.3
12.5°	5006.7	4490.5	3219.9	1830.0	854.6	477.7	380.0	360.8	354.7	354.7	356.7
15°	5032.8	4371.7	2729.1	1163.9	491.8	360.8	331.6	325.5	325.5	326.5	328.5
17.5°	5029.8	4220.5	2192.0	704.5	367.9	319.4	302.3	297.2	296.4	298.2	299.3
20°	4992.5	4023.0	1652.7	464.6	320.4	291.2	274.2	265.0	264.0	266.1	268.1
22.5°	4922.0	3779.1	1182.1	357.7	289.3	264.0	242.9	234.7	234.7	236.9	238.8
25°	4836.3	3480.8	808.2	303.4	261.0	234.7	214.7	207.6	209.7	214.7	215.7
27.5°	4729.4	3145.2	549.3	260.0	226.7	205.6	190.5	185.4	190.5	197.4	199.6
30°	4637.8	2795.5	392.0	224.8	192.4	177.3	168.3	168.3	175.3	188.5	191.5
32.5°	4567.3	2457.0	302.3	198.5	167.3	154.1	149.2	154.1	165.3	178.4	181.4
35°	4558.1	2177.9	255.9	177.3	149.2	136.1	134.0	143.1	154.1	164.3	166.2
37.5°	4627.7	1919.8	230.8	160.3	132.9	120.9	118.9	130.1	141.0	153.3	156.2
40°	4759.7	1717.2	212.7	144.1	120.0	106.8	102.8	110.9	125.9	142.1	146.2
42.5°	4931.1	1549.9	192.4	128.0	106.8	88.8	83.6	92.7	108.9	125.9	131.1
45°	5094.3	1405.8	170.3	109.9	89.7	68.5	66.6	78.6	86.6	103.8	107.8
47.5°	5183.9	1278.8	151.2	89.7	69.4	55.4	55.4	58.5	66.6	86.6	90.6
50°	5153.8	1177.0	131.1	66.6	48.4	42.3	42.3	41.3	53.4	69.4	72.6
52.5°	5093.3	1118.6	112.8	51.5	33.2	30.3	27.2	30.3	37.3	44.3	45.4
55°	5084.1	1108.6	94.7	41.3	23.1	20.1	15.1	15.1	15.1	14.2	12.0
57.5°	5154.7	1124.7	79.6	33.2	17.2	13.0	8.1	0.0	0.0	0.0	0.0
60°	5227.2	1141.7	68.5	23.1	12.0	7.0	1.0	0.0	0.0	0.0	0.0
62.5°	5106.3	1103.5	57.4	14.2	9.1	3.1	0.0	0.0	0.0	0.0	0.0
65°	4485.5	939.3	45.4	10.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3190.6	628.9	30.3	6.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1456.2	263.1	19.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	311.4	81.7	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	63.5	59.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	20.1	93.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.0	67.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.1	10.2	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)