

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: P268497

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268497  
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-7027-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 17095.4 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - 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

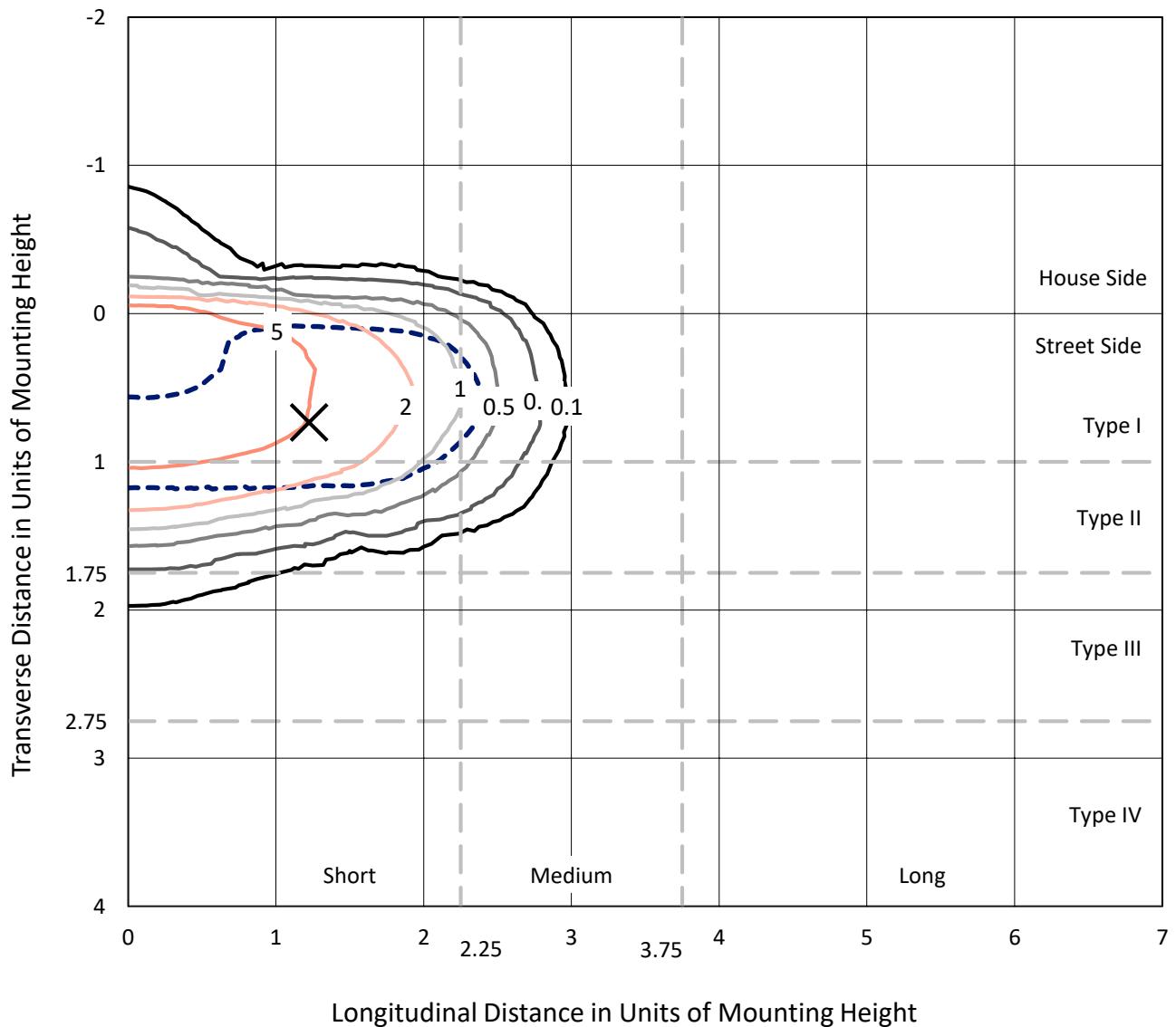


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

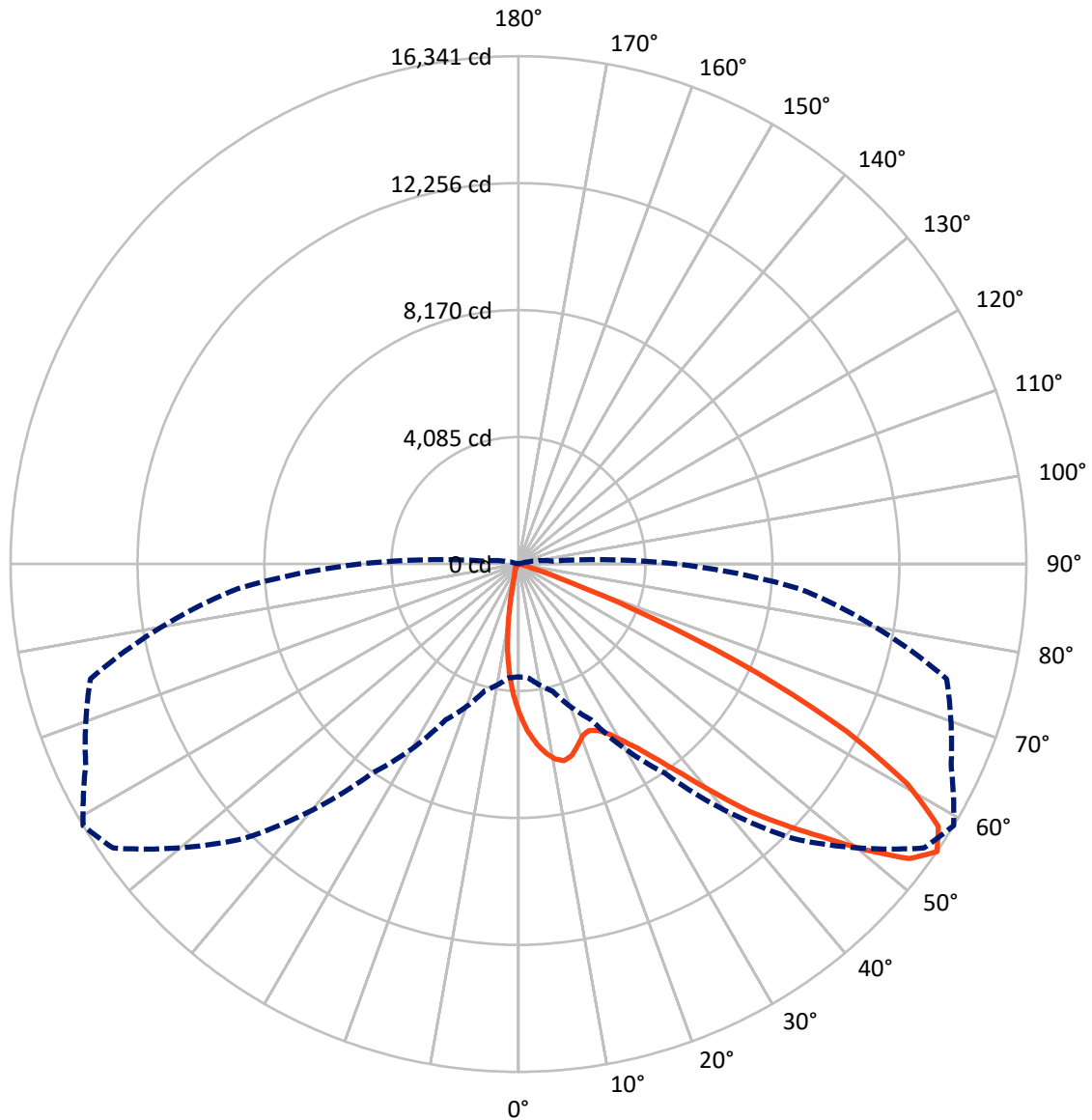


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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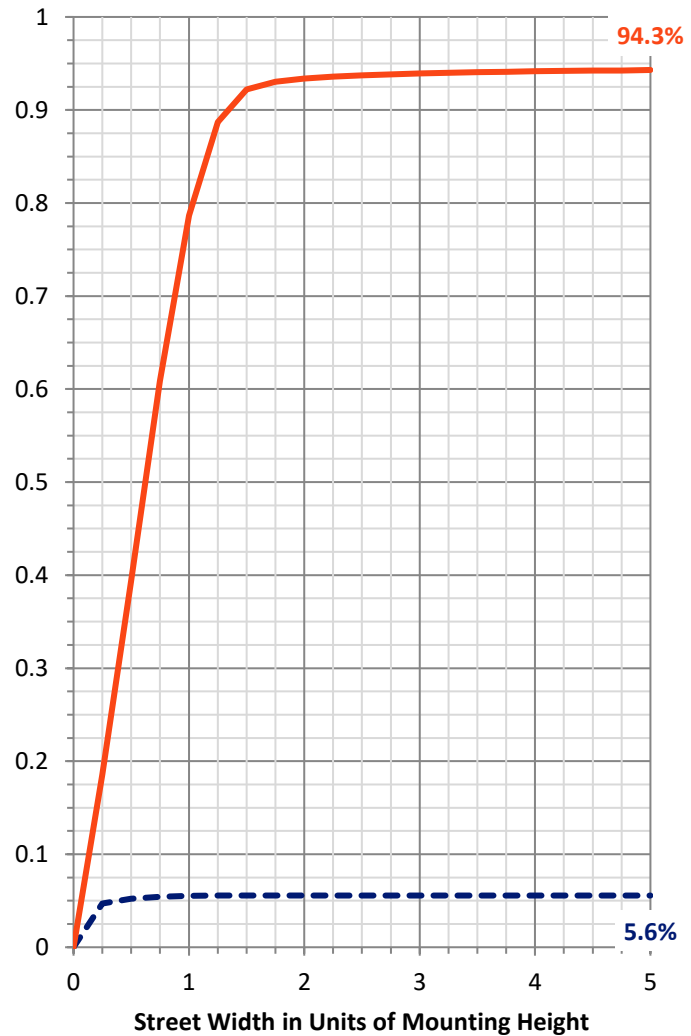
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	954.9	0.0	954.9
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	16140.6	0.0	16140.6
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	17095.4	0.0	17095.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.1	2.4
10°-20°	965.1	5.6
20°-30°	1642.2	9.6
30°-40°	2824.2	16.5
40°-50°	4360.3	25.5
50°-60°	4383.5	25.6
60°-70°	2247.9	13.1
70°-80°	243.6	1.4
80°-90°	25.5	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°	17095.4	100.0
0°-180°	17095.4	100.0



--- HS    — SS

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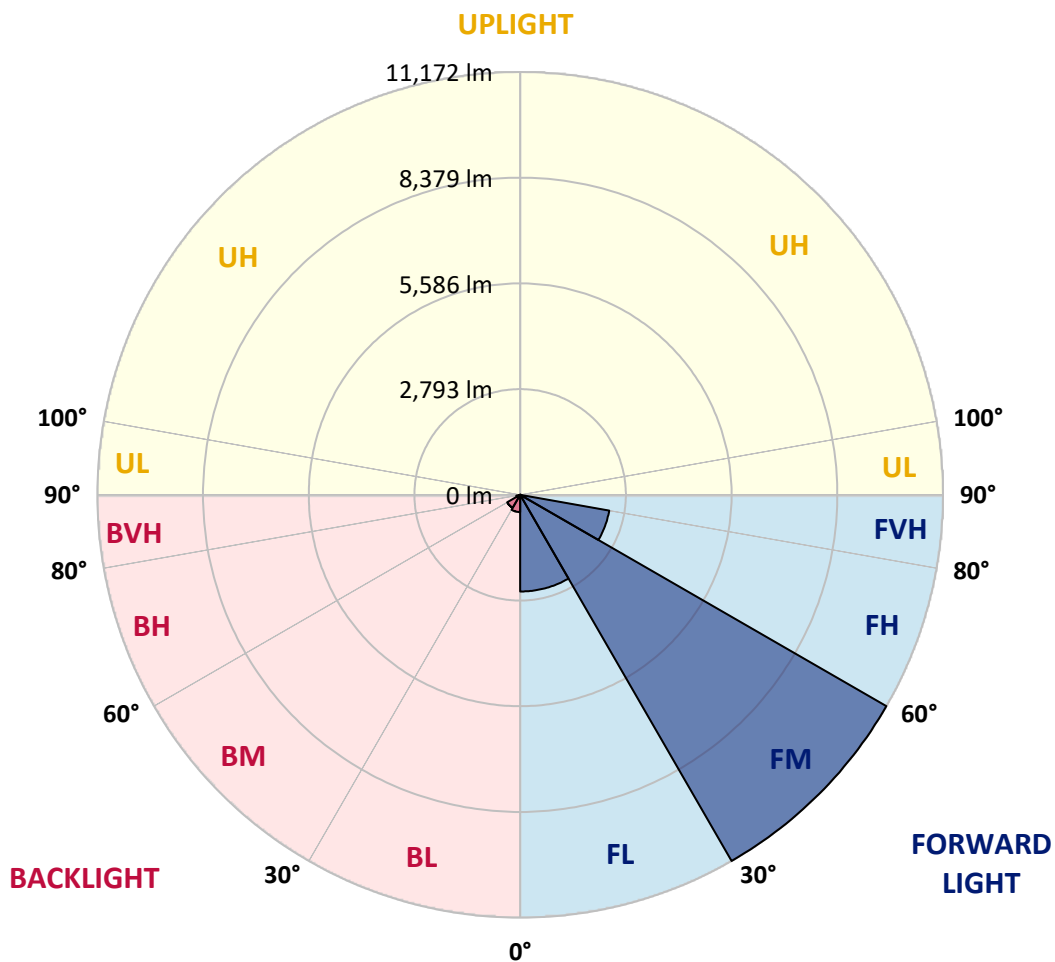
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2554.6	14.9			
FM	(30°-60°)	11171.8	65.3			
FH	(60°-80°)	2389.2	14.0			G2/5000
FVH	(80°-90°)	24.9	0.1			G1/100
BL	(0°-30°)	455.8	2.7	B1/500		
BM	(30°-60°)	396.3	2.3	B1/1000		
BH	(60°-80°)	102.3	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°	4812.3	4812.3	4812.3	4812.3	4812.3	4812.3	4812.3	4812.3	4812.3	4812.3	4812.3
2.5°	5694.0	5633.5	5615.3	5603.3	5547.8	5478.1	5383.4	5338.9	5248.2	5101.8	4922.3
5°	6215.6	6204.6	6164.2	6142.0	6082.5	5983.6	5832.2	5759.7	5615.3	5369.2	5047.3
7.5°	5987.7	6057.2	6112.7	6205.5	6322.6	6318.6	6191.4	6115.8	5954.3	5629.5	5186.6
10°	5107.0	5163.4	5254.1	5465.1	5894.8	6274.1	6423.5	6369.1	6239.8	5868.5	5320.8
12.5°	4934.4	4928.3	4944.5	5006.1	5231.0	5771.7	6384.2	6494.0	6467.8	6087.5	5448.0
15°	5026.1	5019.1	5017.2	5038.4	5092.9	5320.8	6088.5	6404.2	6607.0	6290.3	5555.8
17.5°	5283.4	5253.2	5237.1	5220.0	5203.7	5260.3	5733.4	6153.1	6628.2	6467.8	5645.7
20°	5724.3	5673.9	5614.3	5517.5	5426.8	5398.5	5584.1	5894.8	6552.5	6603.0	5704.1
22.5°	6278.2	6213.7	6110.7	5934.2	5749.5	5642.7	5657.7	5813.1	6439.6	6750.4	5731.4
25°	6900.7	6818.0	6680.8	6435.5	6164.2	5974.5	5875.6	5930.2	6388.1	6922.9	5762.6
27.5°	7567.5	7475.8	7296.2	6962.3	6654.6	6398.3	6196.5	6189.4	6475.9	7148.8	5813.1
30°	8228.4	8214.2	7980.2	7627.1	7219.5	6907.7	6617.2	6579.8	6721.1	7461.6	5913.0
32.5°	9110.2	9004.2	8717.6	8354.4	7884.3	7510.0	7166.0	7079.3	7097.4	7825.9	6067.3
35°	10221.9	10105.8	9702.4	9200.9	8675.3	8233.3	7853.1	7734.9	7690.6	8422.0	6327.7
37.5°	10940.2	10938.1	10684.9	10174.5	9610.4	9123.1	8709.5	8571.4	8481.5	9142.4	6731.2
40°	10959.3	11006.8	11040.1	11035.0	10633.4	10184.5	9817.2	9646.8	9438.0	10104.9	7252.7
42.5°	10371.2	10493.2	10786.8	11285.1	11523.3	11344.8	11035.0	10867.5	10556.8	11134.9	7888.3
45°	9576.2	9660.9	10174.5	11092.5	12005.6	12494.9	12258.8	11959.1	11549.5	12209.4	8458.4
47.5°	9220.1	9235.1	9567.0	10574.9	12041.9	13437.1	13580.3	13093.1	12451.4	13074.9	8904.3
50°	8155.7	8182.9	8640.9	9678.1	11616.2	13882.0	14908.0	14446.1	13435.1	13741.8	9066.8
52.5°	6147.0	6185.4	6766.6	8204.1	10445.9	13692.3	15858.4	15746.4	14512.6	14067.6	9075.8
55°	3626.8	3677.3	4232.3	5522.5	8216.3	12485.7	15929.0	16340.7	15363.1	14260.4	9061.7
57.5°	1693.9	1729.1	2047.0	2845.0	5109.9	9867.7	14865.7	15933.1	15832.2	14362.2	9161.5
60°	899.9	910.1	986.7	1231.8	2309.4	6257.1	12790.4	14387.4	15404.5	14503.6	9283.7
62.5°	688.0	691.1	687.1	716.3	970.4	2777.4	9668.0	11828.1	13682.3	14397.6	9148.3
65°	596.3	601.2	572.9	566.0	622.4	990.7	5743.6	8431.1	10751.5	12968.0	8227.3
67.5°	534.8	536.6	502.4	473.1	483.3	535.7	2266.0	4615.6	7116.6	9505.5	5963.4
70°	492.4	490.4	452.9	406.6	393.5	366.1	720.4	1691.9	3401.0	4820.3	2773.3
72.5°	435.9	436.8	418.7	358.2	326.9	256.2	333.9	493.3	1014.9	1313.5	649.7
75°	386.5	381.3	359.1	320.9	269.4	168.5	165.5	219.9	312.8	310.8	140.2
77.5°	279.5	274.4	281.4	263.4	206.8	109.0	82.7	105.9	127.1	123.1	39.3
80°	204.9	201.8	181.5	218.9	182.6	74.6	51.5	56.6	65.5	55.4	12.0
82.5°	140.2	139.2	128.1	121.0	103.9	45.5	32.2	35.4	42.4	31.4	6.1
85°	22.2	25.2	92.9	73.7	61.5	20.2	22.2	24.3	28.2	17.2	2.1
87.5°	0.0	0.0	43.4	38.4	12.0	8.1	13.1	14.2	14.2	9.2	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°	4812.3	4812.3	4812.3	4812.3	4812.3	4812.3	4812.3	4812.3	4812.3	4812.3	4812.3
2.5°	4830.5	4729.5	4543.0	4350.2	4171.6	3958.8	3812.5	3702.5	3575.4	3541.1	3615.8
5°	4863.8	4673.2	4271.5	3834.8	3424.1	2969.1	2621.1	2345.7	2096.5	2011.7	2088.4
7.5°	4916.2	4632.6	3978.0	3258.6	2544.4	1834.1	1347.8	1028.0	824.3	763.6	796.0
10°	4968.6	4574.2	3638.0	2576.7	1600.2	892.8	581.2	464.1	420.6	411.7	416.6
12.5°	5012.1	4495.5	3223.4	1832.2	855.5	478.2	380.3	361.2	355.1	355.1	357.2
15°	5038.4	4376.5	2732.0	1165.2	492.4	361.2	332.0	325.8	325.8	326.9	328.9
17.5°	5035.3	4225.2	2194.3	705.2	368.2	319.7	302.6	297.6	296.6	298.6	299.7
20°	4997.9	4027.5	1654.6	465.1	320.9	291.6	274.4	265.3	264.3	266.3	268.4
22.5°	4927.4	3783.2	1183.3	358.2	289.6	264.3	243.1	235.0	235.0	237.2	239.0
25°	4841.5	3484.6	809.2	303.6	261.2	235.0	214.9	207.8	209.8	214.9	216.0
27.5°	4734.6	3148.6	549.9	260.2	227.0	205.8	190.7	185.6	190.7	197.7	199.8
30°	4642.8	2798.6	392.5	224.9	192.6	177.5	168.5	168.5	175.6	188.6	191.7
32.5°	4572.3	2459.6	302.6	198.7	167.4	154.4	149.3	154.4	165.5	178.6	181.5
35°	4563.1	2180.1	256.2	177.5	149.3	136.3	134.1	143.3	154.4	164.4	166.5
37.5°	4632.6	1922.0	231.0	160.3	133.2	121.0	119.0	130.2	141.3	153.3	156.3
40°	4764.9	1719.0	212.9	144.3	120.1	107.0	102.9	111.0	126.1	142.2	146.2
42.5°	4936.4	1551.6	192.6	128.1	107.0	88.8	83.7	92.9	109.0	126.1	131.2
45°	5099.9	1407.4	170.5	110.0	89.8	68.6	66.6	78.7	86.7	103.9	107.9
47.5°	5189.6	1280.3	151.4	89.8	69.6	55.4	55.4	58.5	66.6	86.7	90.8
50°	5159.3	1178.3	131.2	66.6	48.4	42.4	42.4	41.3	53.4	69.6	72.7
52.5°	5098.8	1119.8	112.9	51.5	33.2	30.3	27.3	30.3	37.3	44.3	45.5
55°	5089.7	1109.8	94.9	41.3	23.1	20.2	15.1	15.1	15.1	14.2	12.0
57.5°	5160.4	1125.8	79.7	33.2	17.2	13.1	8.1	0.0	0.0	0.0	0.0
60°	5232.9	1143.1	68.6	23.1	12.0	7.0	1.0	0.0	0.0	0.0	0.0
62.5°	5112.0	1104.7	57.5	14.2	9.2	3.1	0.0	0.0	0.0	0.0	0.0
65°	4490.4	940.3	45.5	10.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3194.1	629.5	30.3	6.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1457.8	263.4	19.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	311.7	81.7	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	63.6	59.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	20.2	93.9	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)