

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: P268657

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268657
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-07-LED-U-AFL-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 24192.5 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 295
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

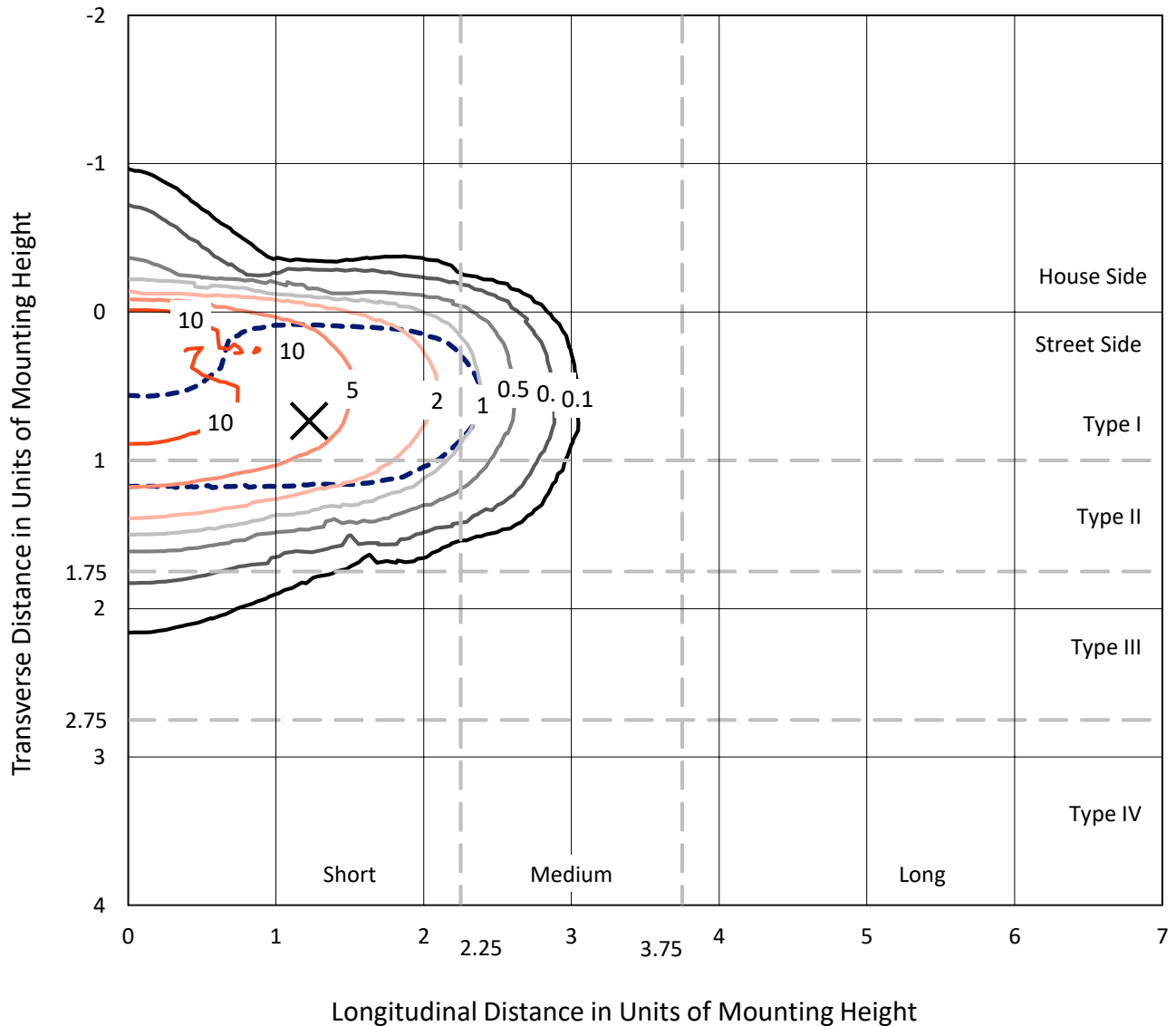


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

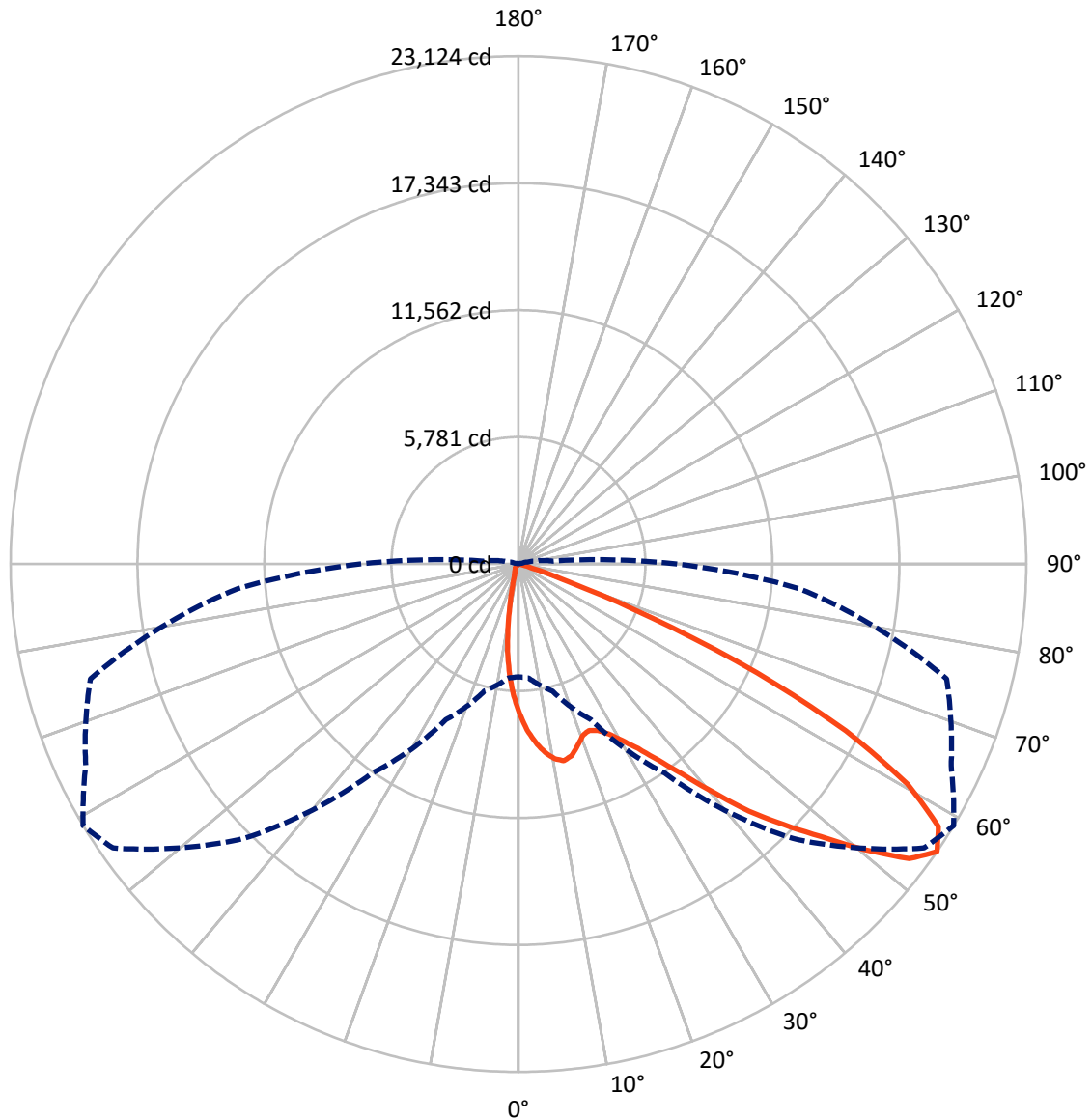


Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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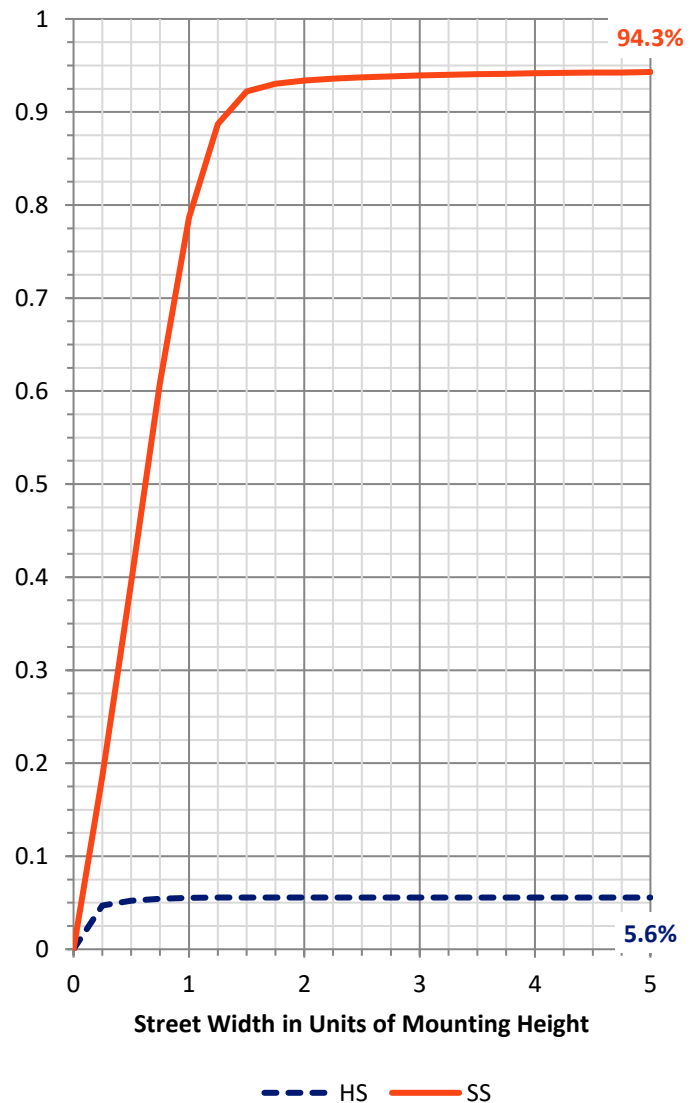
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1351.3	0.0	1351.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	22841.3	0.0	22841.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	24192.5	0.0	24192.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.4	2.4
10°-20°	1365.7	5.6
20°-30°	2324.0	9.6
30°-40°	3996.7	16.5
40°-50°	6170.5	25.5
50°-60°	6203.3	25.6
60°-70°	3181.1	13.1
70°-80°	344.7	1.4
80°-90°	36.0	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°	24192.5	100.0
0°-180°	24192.5	100.0



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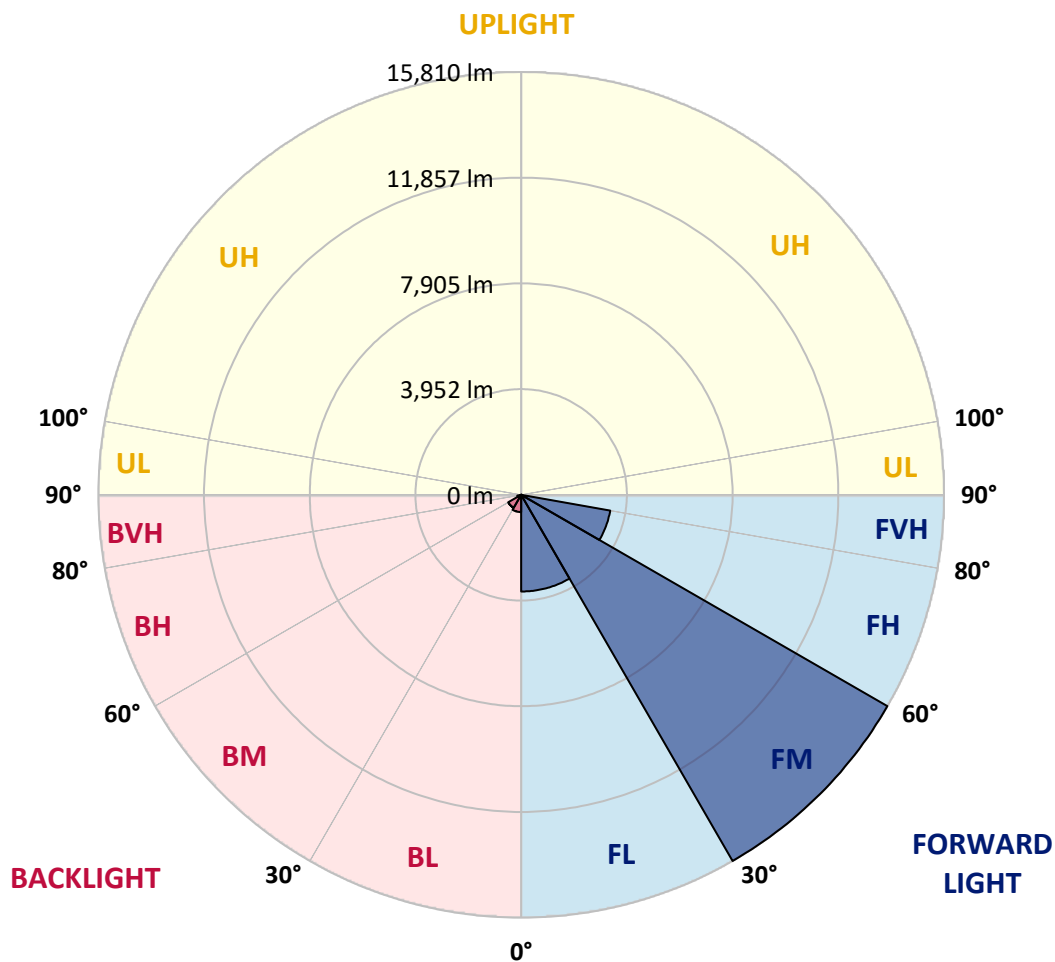
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3615.2	14.9			
FM	(30°-60°)	15809.7	65.3			
FH	(60°-80°)	3381.1	14.0			G2/5000
FVH	(80°-90°)	35.3	0.1			G1/100
BL	(0°-30°)	645.0	2.7	B2/1000		
BM	(30°-60°)	560.8	2.3	B1/1000		
BH	(60°-80°)	144.8	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1
2.5°	8057.9	7972.3	7946.5	7929.3	7850.8	7752.5	7618.2	7555.4	7426.8	7219.9	6965.7
5°	8796.1	8780.4	8723.3	8691.8	8607.6	8467.7	8253.4	8150.7	7946.5	7598.3	7142.8
7.5°	8473.4	8571.8	8650.4	8781.8	8947.4	8941.6	8761.8	8654.7	8426.3	7966.6	7339.8
10°	7227.0	7307.0	7435.5	7733.9	8342.0	8878.8	9090.2	9013.1	8830.2	8304.9	7529.7
12.5°	6982.9	6974.4	6997.2	7084.3	7402.7	8167.8	9034.4	9190.1	9153.0	8614.7	7709.6
15°	7112.8	7102.8	7099.9	7129.8	7207.0	7529.7	8616.2	9063.0	9350.0	8901.7	7862.3
17.5°	7476.9	7434.1	7411.1	7386.9	7364.0	7444.1	8113.6	8707.5	9379.9	9153.0	7989.3
20°	8100.7	8029.4	7945.1	7808.1	7679.6	7639.5	7902.3	8342.0	9272.8	9344.3	8072.2
22.5°	8884.5	8793.1	8647.5	8397.7	8136.5	7985.2	8006.6	8226.4	9112.9	9552.8	8110.7
25°	9765.5	9648.3	9454.2	9107.2	8723.3	8454.8	8314.9	8392.0	9040.2	9796.8	8155.1
27.5°	10709.1	10579.2	10325.1	9852.5	9417.1	9054.5	8769.0	8759.0	9164.4	10116.6	8226.4
30°	11644.3	11624.2	11293.1	10793.3	10216.7	9775.4	9364.2	9311.4	9511.3	10559.2	8367.7
32.5°	12892.0	12742.2	12336.8	11822.8	11157.5	10627.8	10141.0	10018.2	10043.9	11074.7	8586.2
35°	14465.4	14301.2	13730.1	13020.7	12276.7	11651.5	11113.2	10946.1	10883.3	11918.4	8954.6
37.5°	15482.0	15479.1	15120.7	14398.4	13600.2	12910.7	12325.4	12129.8	12002.7	12937.7	9525.5
40°	15509.1	15576.3	15623.3	15616.1	15047.9	14412.5	13892.8	13651.6	13356.1	14299.8	10263.8
42.5°	14676.7	14849.4	15264.9	15970.2	16307.1	16054.5	15616.1	15379.2	14939.4	15757.4	11163.1
45°	13551.7	13671.7	14398.4	15697.5	16989.6	17682.0	17348.0	16923.9	16344.3	17278.0	11969.8
47.5°	13047.7	13069.1	13538.9	14965.1	17040.9	19015.5	19218.2	18528.6	17620.7	18503.0	12600.9
50°	11541.6	11580.1	12228.2	13695.9	16438.5	19645.2	21097.1	20443.2	19012.6	19446.7	12830.8
52.5°	8698.9	8753.3	9575.6	11610.1	14782.4	19376.7	22441.9	22283.4	20537.4	19907.8	12843.5
55°	5132.6	5203.9	5989.2	7815.3	11627.1	17669.2	22541.9	23124.3	21741.0	20180.6	12823.6
57.5°	2397.0	2447.1	2896.9	4026.2	7231.3	13964.3	21037.0	22547.5	22404.8	20324.7	12964.9
60°	1273.4	1287.8	1396.2	1743.3	3268.0	8854.6	18100.4	20360.4	21799.4	20524.6	13137.6
62.5°	973.8	978.0	972.2	1013.6	1373.5	3930.4	13681.6	16738.3	19362.3	20374.6	12946.4
65°	843.8	851.0	810.9	800.8	880.9	1402.1	8127.9	11931.3	15215.0	18351.7	11642.8
67.5°	756.7	759.5	711.0	669.5	683.9	758.1	3206.6	6531.8	10071.0	13451.8	8439.0
70°	696.7	693.9	641.0	575.4	556.8	518.2	1019.3	2394.3	4812.8	6821.5	3924.8
72.5°	616.7	618.3	592.5	506.9	462.5	362.6	472.6	698.2	1436.3	1858.9	919.4
75°	546.8	539.7	508.3	454.1	381.2	238.4	234.2	311.3	442.5	439.7	198.4
77.5°	395.4	388.3	398.3	372.6	292.7	154.1	117.0	149.8	179.9	174.2	55.7
80°	289.9	285.5	256.9	309.8	258.4	105.6	72.9	79.9	92.9	78.5	17.2
82.5°	198.4	197.0	181.3	171.3	147.1	64.3	45.6	49.9	59.9	44.2	8.5
85°	31.4	35.8	131.3	104.3	87.0	28.6	31.4	34.2	40.0	24.3	2.9
87.5°	0.0	0.0	61.4	54.3	17.2	11.4	18.5	20.0	20.0	12.8	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°	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1	6810.1
2.5°	6835.8	6693.0	6428.9	6156.3	5903.5	5602.3	5395.3	5239.6	5059.8	5011.3	5116.8
5°	6883.0	6613.1	6044.9	5426.8	4845.5	4201.7	3709.1	3319.3	2966.7	2846.8	2955.3
7.5°	6957.2	6556.0	5629.4	4611.4	3600.6	2595.6	1907.5	1454.8	1166.4	1080.8	1126.5
10°	7031.5	6473.1	5148.2	3646.3	2264.3	1263.6	822.4	656.8	595.3	582.6	589.6
12.5°	7092.7	6361.7	4561.6	2592.7	1210.6	676.8	538.3	511.1	502.5	502.5	505.3
15°	7129.8	6193.4	3866.1	1649.0	696.7	511.1	469.8	461.1	461.1	462.5	465.4
17.5°	7125.6	5979.2	3105.3	997.9	521.0	452.6	428.3	421.1	419.8	422.7	424.0
20°	7072.9	5699.3	2341.4	658.2	454.1	412.6	388.3	375.5	374.1	376.8	379.8
22.5°	6972.9	5353.9	1674.7	506.9	409.7	374.1	344.1	332.6	332.6	335.4	338.3
25°	6851.6	4931.2	1145.0	429.7	369.8	332.6	304.0	294.1	297.0	304.0	305.6
27.5°	6700.2	4455.9	778.1	368.3	321.2	291.2	269.9	262.8	269.9	279.8	282.6
30°	6570.3	3960.4	555.4	318.4	272.6	251.3	238.4	238.4	248.4	266.9	271.3
32.5°	6470.3	3480.8	428.3	281.3	237.1	218.5	211.3	218.5	234.2	252.8	256.9
35°	6457.5	3085.3	362.6	251.3	211.3	192.7	189.9	202.7	218.5	232.8	235.5
37.5°	6556.0	2719.8	327.0	227.0	188.5	171.3	168.4	184.2	199.9	217.0	221.3
40°	6742.9	2432.8	301.2	204.2	169.9	151.4	145.6	157.1	178.5	201.3	207.0
42.5°	6985.7	2195.7	272.6	181.3	151.4	125.7	118.4	131.3	154.1	178.5	185.6
45°	7217.1	1991.6	241.3	155.6	127.1	97.0	94.2	111.4	122.8	147.1	152.7
47.5°	7344.1	1811.7	214.2	127.1	98.5	78.5	78.5	82.9	94.2	122.8	128.5
50°	7301.2	1667.6	185.6	94.2	68.5	59.9	59.9	58.5	75.6	98.5	102.8
52.5°	7215.5	1584.7	159.9	72.9	47.2	42.8	38.5	42.8	52.8	62.8	64.3
55°	7202.7	1570.4	134.1	58.5	32.9	28.6	21.4	21.4	21.4	20.0	17.2
57.5°	7302.7	1593.4	112.7	47.2	24.3	18.5	11.4	0.0	0.0	0.0	0.0
60°	7405.4	1617.6	97.0	32.9	17.2	10.1	1.4	0.0	0.0	0.0	0.0
62.5°	7234.1	1563.3	81.3	20.0	12.8	4.3	0.0	0.0	0.0	0.0	0.0
65°	6354.7	1330.6	64.3	14.3	8.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4520.1	890.8	42.8	8.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	2063.0	372.6	27.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	441.2	115.6	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	89.9	84.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	28.6	132.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.2	95.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.9	14.3	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)