

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: P321281

Luminaire Tested: **GAN-SA7B-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32627 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

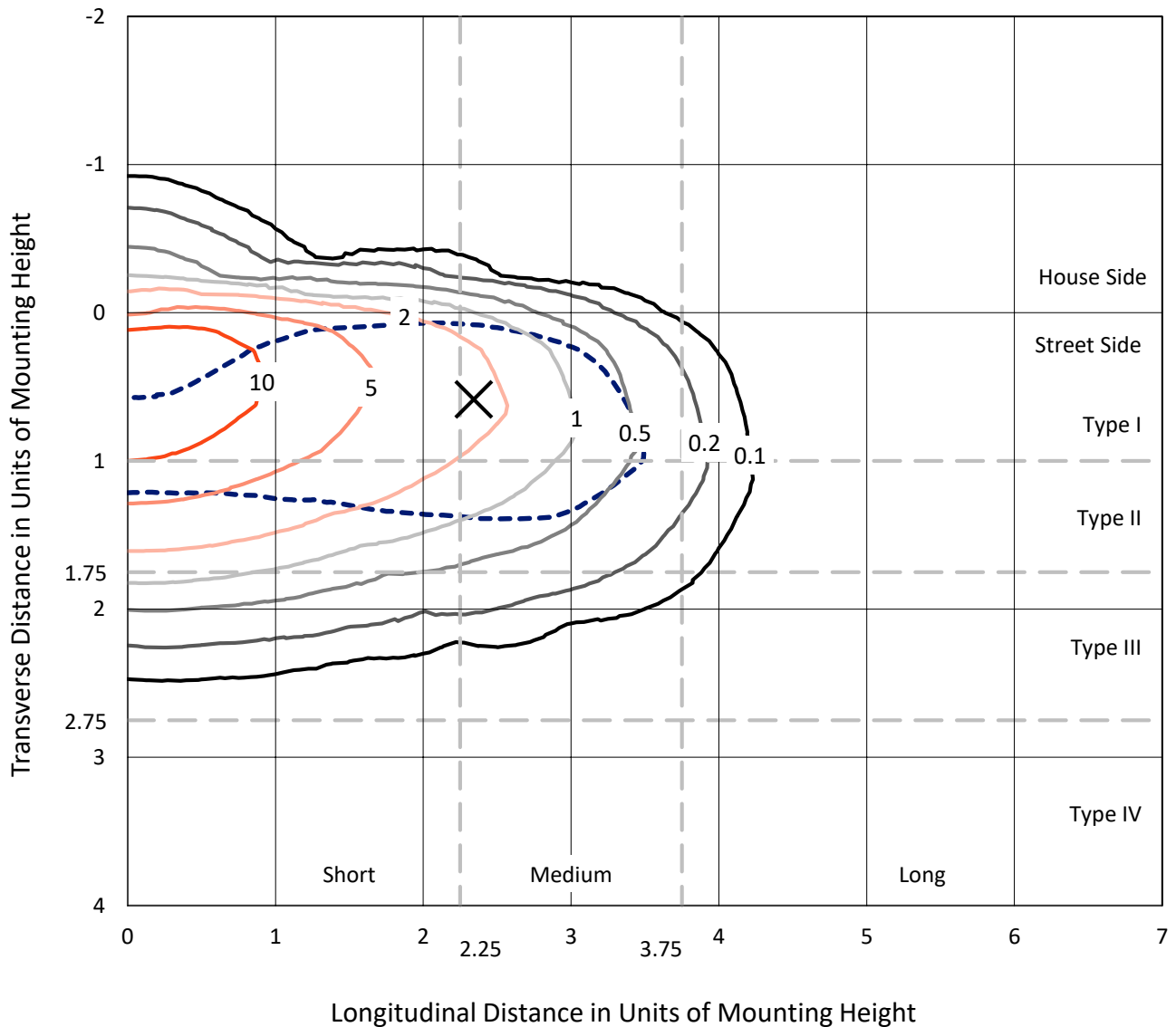
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

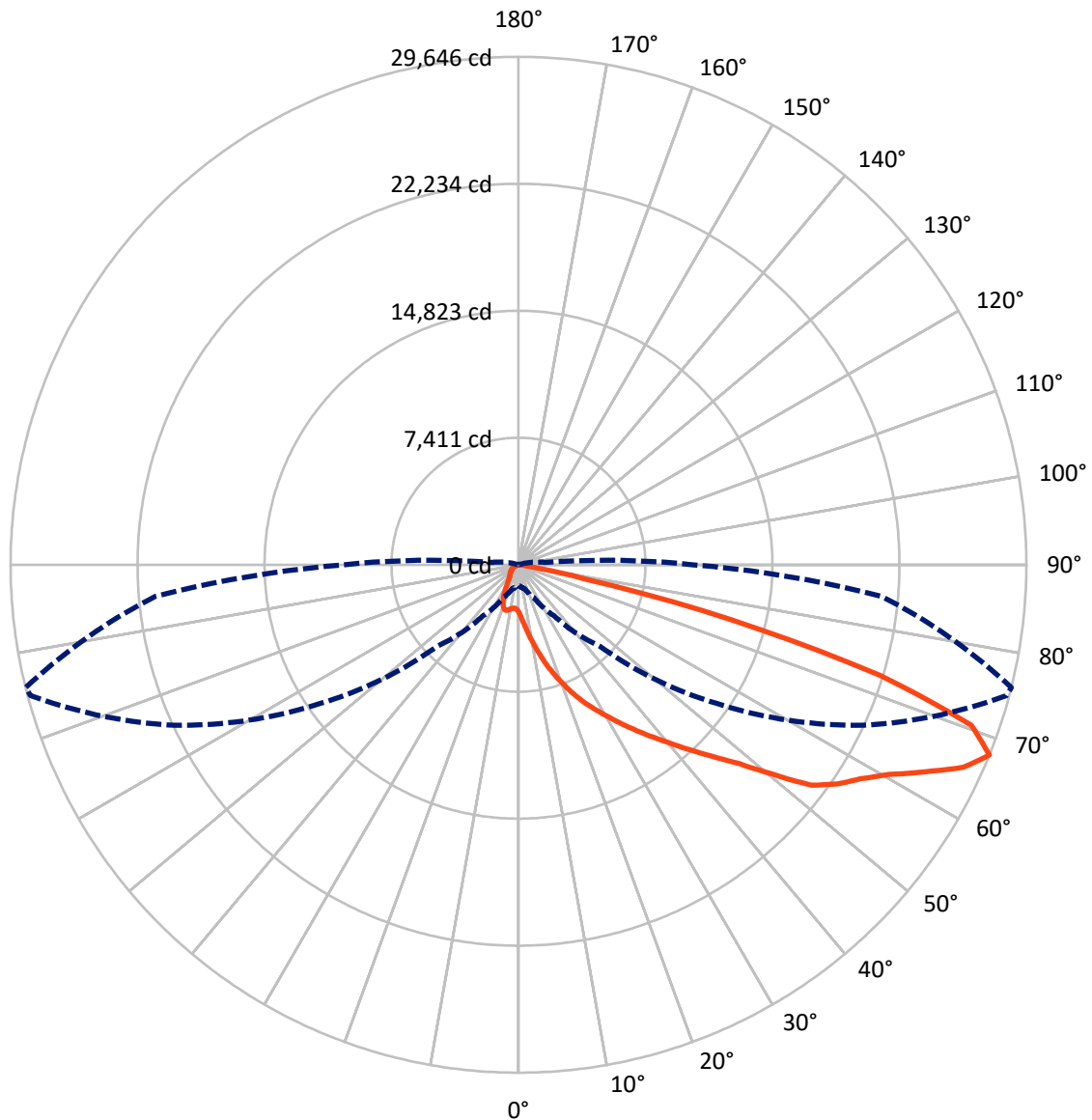
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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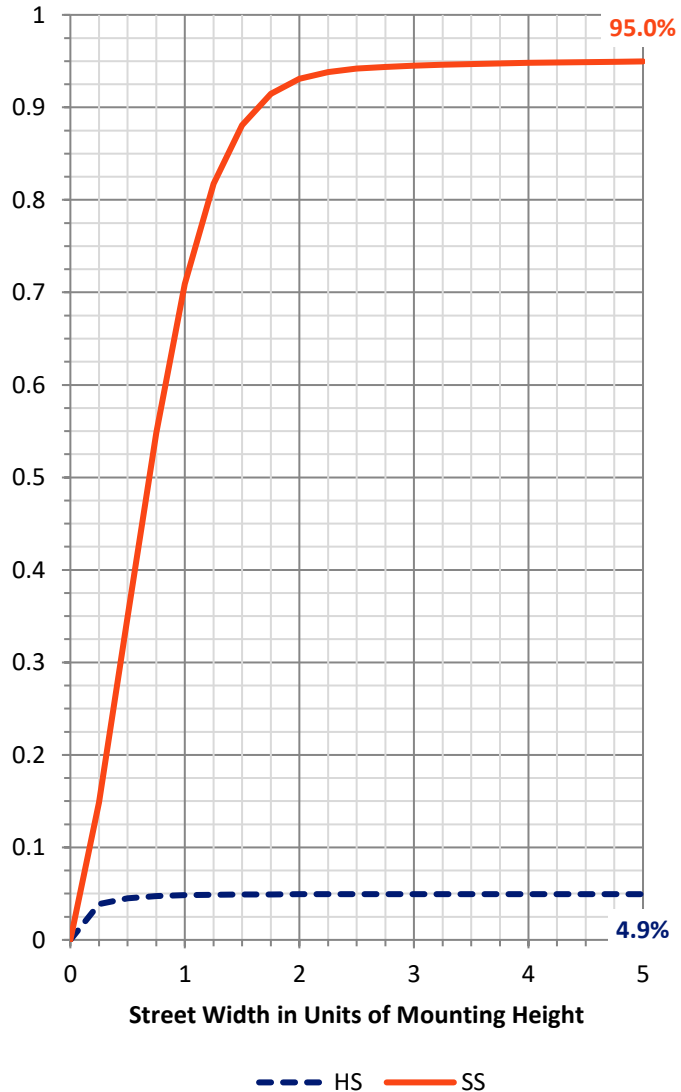
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1620.2	0.0	1620.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	31006.8	0.0	31006.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	32627.0	0.0	32627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.2	1.1
10°-20°	1364.3	4.2
20°-30°	2775.9	8.5
30°-40°	4818.1	14.8
40°-50°	6807.3	20.9
50°-60°	7719.8	23.7
60°-70°	6402.9	19.6
70°-80°	2319.3	7.1
80°-90°	75.2	0.2
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°	32627.0	100.0
0°-180°	32627.0	100.0

Coefficient of Utilization

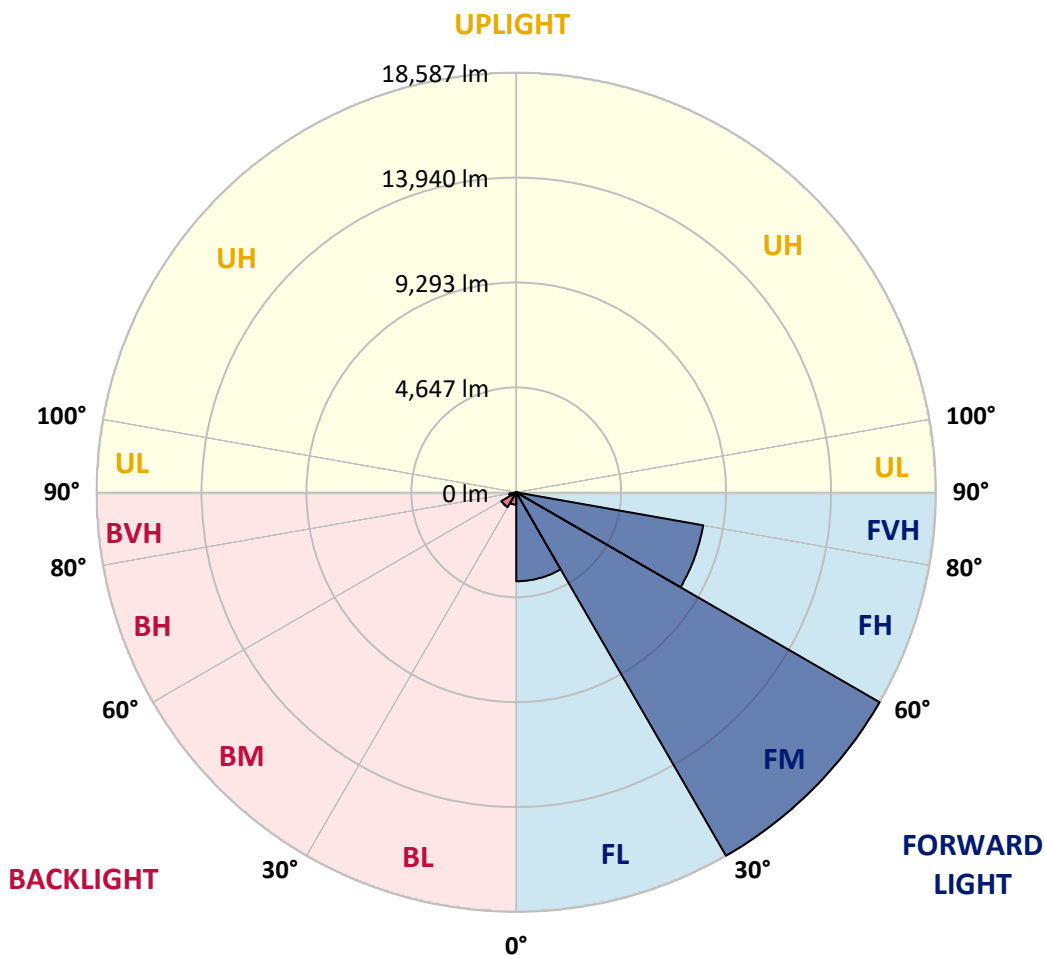


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3938.0	12.1			
FM (30°-60°)	18586.9	57.0			
FH (60°-80°)	8409.1	25.8			G4/12000
FVH (80°-90°)	72.8	0.2			G1/100
BL (0°-30°)	546.4	1.7	B2/1000		
BM (30°-60°)	758.3	2.3	B1/1000		
BH (60°-80°)	313.1	1.0	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7
2.5°	4131.6	4038.6	4060.1	4000.0	3891.4	3668.4	3478.2	3298.1	3087.9	3080.8	2907.8
5°	5571.2	5492.5	5482.5	5361.0	5163.7	4784.9	4416.0	3995.7	3526.8	3492.5	3125.1
7.5°	6877.8	6814.9	6792.1	6647.7	6280.3	5911.4	5431.1	4813.5	4080.1	4017.2	3418.2
10°	7881.4	7851.4	7857.1	7754.2	7439.7	7096.6	6466.1	5678.4	4707.7	4610.5	3769.9
12.5°	8642.0	8649.1	8700.6	8637.7	8461.8	8207.4	7534.0	6600.5	5402.5	5269.5	4171.6
15°	9200.9	9236.7	9331.0	9409.7	9396.8	9176.6	8559.0	7536.9	6140.2	5992.9	4619.1
17.5°	9562.6	9602.7	9739.9	9914.3	10074.4	10023.0	9548.3	8440.4	6886.4	6716.3	5098.0
20°	9880.0	9927.2	10074.4	10304.6	10603.4	10667.7	10356.1	9316.7	7631.2	7423.9	5592.6
22.5°	10567.6	10566.2	10656.3	10790.7	11075.1	11241.0	11043.7	10130.2	8367.5	8151.6	6097.3
25°	11811.4	11764.2	11732.8	11627.0	11689.9	11792.8	11682.7	10890.7	9108.0	8889.3	6609.1
27.5°	13289.6	13318.2	13063.7	12779.2	12559.1	12453.3	12273.2	11595.5	9820.0	9579.8	7109.4
30°	14849.3	14857.9	14557.7	14194.5	13709.9	13308.2	12996.5	12268.9	10551.9	10290.3	7595.5
32.5°	16256.0	16200.3	15902.9	15408.3	14796.4	14344.7	13697.0	13020.8	11326.8	11073.7	8135.9
35°	17371.1	17305.4	16943.7	16493.3	15858.6	15404.0	14624.9	13771.4	12141.6	11894.3	8677.7
37.5°	18186.0	18108.8	17737.1	17273.9	16726.4	16461.9	15701.3	14587.7	13030.8	12764.9	9248.1
40°	18469.1	18401.9	18168.8	17830.0	17389.7	17329.7	16843.6	15526.9	13998.7	13715.6	9894.3
42.5°	18300.4	18234.6	18151.7	18037.3	17854.3	17911.5	17921.5	16597.7	15073.8	14795.0	10607.7
45°	17631.3	17572.7	17658.5	17825.7	18053.0	18336.1	18905.1	17748.5	16274.6	15977.3	11432.5
47.5°	16646.3	16603.4	16840.7	17258.2	17923.0	18703.5	19804.3	18958.0	17622.7	17346.8	12461.9
50°	15245.3	15238.2	15712.8	16474.8	17496.9	18880.8	20733.6	20333.3	19495.5	19205.3	13892.9
52.5°	13063.7	13078.0	14011.6	15231.0	16749.2	18760.7	21331.1	22100.3	21674.2	21372.6	15132.4
55°	10986.5	11072.3	11734.2	13492.6	15602.7	18314.7	21537.0	22925.1	22876.5	22590.6	15821.4
57.5°	8952.2	9108.0	9745.6	11388.2	13928.6	17286.8	21424.1	23282.5	23771.5	23552.7	16730.7
60°	6747.7	6819.2	7554.0	9089.4	11779.9	15411.1	20604.9	23477.0	24995.2	24843.7	18050.2
62.5°	4293.1	4471.8	5123.7	6604.8	9172.3	12806.4	19223.9	23474.1	26526.3	26609.2	19752.8
65°	2261.6	2470.4	2816.3	4093.0	6303.1	9897.2	17146.7	23253.9	28404.8	28520.6	21083.8
67.5°	1219.5	1279.5	1462.5	2124.4	3655.5	6704.8	14094.5	22167.4	29492.7	29645.7	21269.7
70°	892.1	925.0	993.6	1175.1	1839.9	3894.2	10284.6	19704.2	28090.3	28033.1	18897.9
72.5°	684.8	736.2	787.7	860.6	1057.9	2078.6	6403.2	15429.7	22413.3	22035.9	14125.9
75°	540.4	549.0	621.9	687.6	793.4	1183.7	2843.5	8986.5	13679.9	12786.4	7325.3
77.5°	431.7	437.5	480.3	537.5	637.6	777.7	880.6	3535.4	4367.4	3897.1	1589.7
80°	255.9	270.2	357.4	414.6	529.0	490.4	321.7	767.7	681.9	617.6	267.3
82.5°	143.0	154.4	201.6	327.4	368.8	234.5	160.1	207.3	160.1	155.8	75.8
85°	0.0	7.1	130.1	203.0	150.1	51.5	67.2	68.6	47.2	44.3	30.0
87.5°	0.0	0.0	40.0	38.6	5.7	8.6	15.7	22.9	18.6	18.6	15.7
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°	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7	2767.7
2.5°	2822.0	2744.8	2599.0	2456.1	2336.0	2237.3	2148.7	2113.0	2084.4	2080.1	2057.2
5°	2947.8	2792.0	2513.2	2284.5	2131.5	2022.9	1930.0	1872.8	1828.5	1811.3	1795.6
7.5°	3138.0	2902.1	2501.8	2238.8	2055.8	1872.8	1701.2	1515.4	1399.6	1355.3	1329.5
10°	3369.6	3047.9	2544.7	2225.9	1905.7	1519.7	1235.2	999.3	903.5	872.1	863.5
12.5°	3639.8	3229.5	2619.0	2145.8	1585.4	1079.4	852.0	772.0	750.5	740.5	740.5
15°	3950.0	3428.2	2671.9	1914.2	1172.3	816.3	737.7	700.5	677.6	664.8	666.2
17.5°	4267.4	3622.6	2646.2	1578.3	864.9	726.2	667.6	627.6	596.1	583.3	580.4
20°	4587.6	3802.7	2503.2	1175.1	732.0	659.0	593.3	549.0	517.5	504.7	501.8
22.5°	4919.3	3955.7	2251.6	862.1	657.6	584.7	520.4	476.1	446.0	434.6	428.9
25°	5242.4	4080.1	1899.9	697.6	587.6	514.7	453.2	411.7	384.6	373.1	371.7
27.5°	5544.0	4158.7	1492.5	616.2	526.1	451.8	396.0	358.8	336.0	327.4	325.9
30°	5815.6	4165.9	1103.7	556.1	471.8	397.4	346.0	313.1	293.1	284.5	281.6
32.5°	6090.1	4105.8	803.4	501.8	421.7	350.3	300.2	274.5	260.2	253.0	253.0
35°	6348.9	3967.2	626.2	454.6	373.1	304.5	264.5	245.9	237.3	230.2	230.2
37.5°	6601.9	3768.4	531.8	413.2	327.4	265.9	233.0	221.6	214.4	207.3	207.3
40°	6859.2	3518.3	483.2	374.6	290.2	235.9	207.3	197.3	190.1	184.4	183.0
42.5°	7175.2	3229.5	451.8	338.8	257.3	208.7	183.0	171.6	165.8	160.1	157.3
45°	7541.2	2980.7	426.0	303.1	230.2	185.8	158.7	147.2	138.7	131.5	130.1
47.5°	8068.7	2800.6	391.7	264.5	204.4	161.5	137.2	124.4	111.5	104.4	102.9
50°	8742.0	2651.9	347.4	230.2	178.7	137.2	114.4	98.6	87.2	80.1	80.1
52.5°	9076.6	2457.5	307.4	200.1	150.1	115.8	92.9	74.3	68.6	61.5	61.5
55°	9210.9	2308.8	267.3	170.1	124.4	95.8	72.9	57.2	52.9	48.6	47.2
57.5°	9588.4	2265.9	233.0	144.4	102.9	75.8	55.8	42.9	40.0	34.3	34.3
60°	10195.9	2287.4	201.6	122.9	82.9	58.6	41.5	32.9	30.0	24.3	24.3
62.5°	10852.1	2260.2	170.1	105.8	64.3	42.9	28.6	24.3	24.3	14.3	12.9
65°	10977.9	2012.9	145.8	87.2	50.0	31.5	18.6	15.7	21.4	2.9	0.0
67.5°	10188.8	1561.1	125.8	67.2	37.2	24.3	14.3	7.1	18.6	0.0	0.0
70°	8147.3	992.1	101.5	48.6	28.6	20.0	11.4	2.9	14.3	0.0	0.0
72.5°	5761.3	576.1	80.1	34.3	24.3	15.7	8.6	0.0	8.6	0.0	0.0
75°	2913.5	307.4	50.0	25.7	18.6	11.4	5.7	0.0	1.4	0.0	0.0
77.5°	630.5	143.0	31.5	18.6	12.9	7.1	2.9	0.0	0.0	0.0	0.0
80°	137.2	62.9	20.0	11.4	7.1	4.3	0.0	0.0	0.0	0.0	0.0
82.5°	50.0	32.9	10.0	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.2	17.2	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	5.7	1.4	1.4	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)