

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: P191747

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191747  
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-09-LED-U-AFL-7050-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 1200mA 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: 47788 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 575  
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

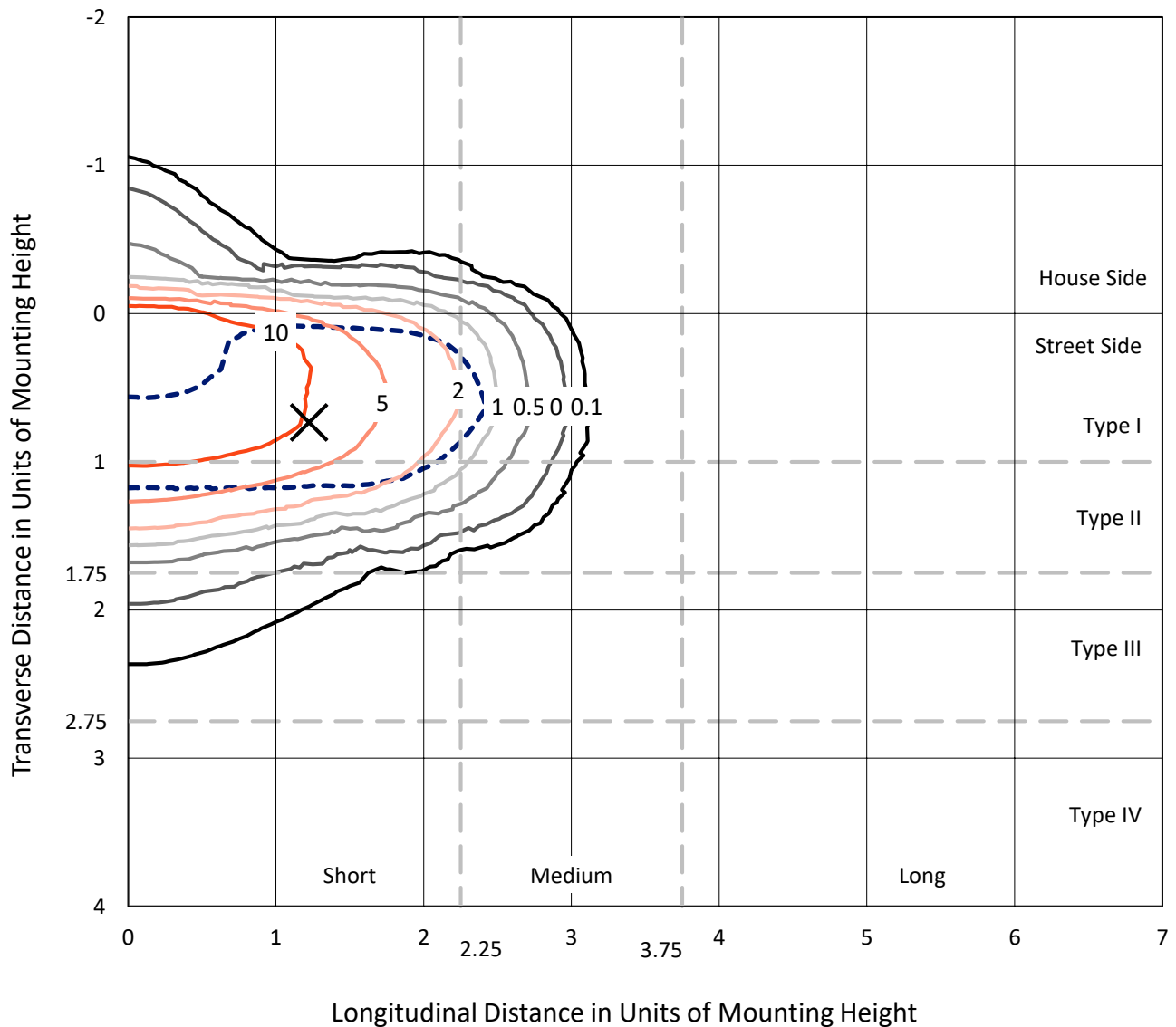


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

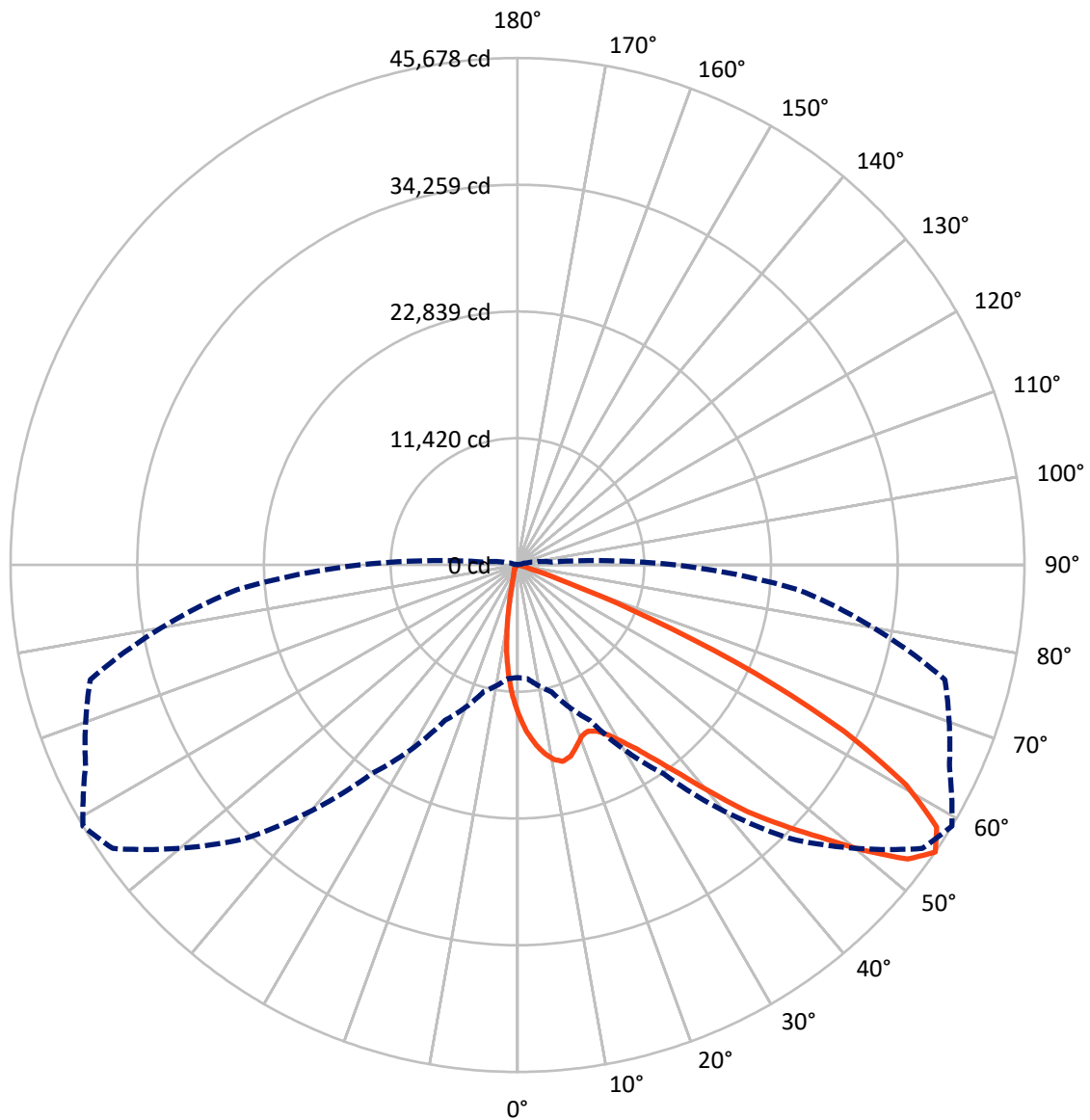


Based on 30 foot mounting height. Maximum calculated value = 18.6 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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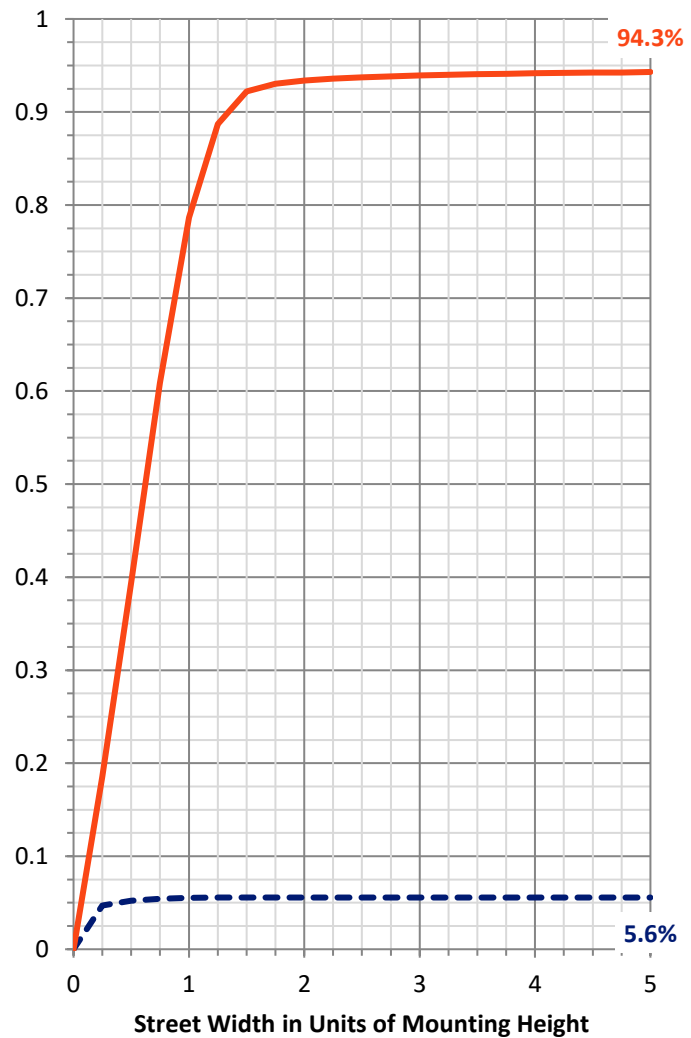
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2669.2	0.0	2669.2
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	45118.8	0.0	45118.8
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	47788.0	0.0	47788.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1126.8	2.4
10°-20°	2697.8	5.6
20°-30°	4590.6	9.6
30°-40°	7894.8	16.5
40°-50°	12188.7	25.5
50°-60°	12253.5	25.6
60°-70°	6283.7	13.1
70°-80°	681.0	1.4
80°-90°	71.2	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°	47788.0	100.0
0°-180°	47788.0	100.0

**Coefficient of Utilization**



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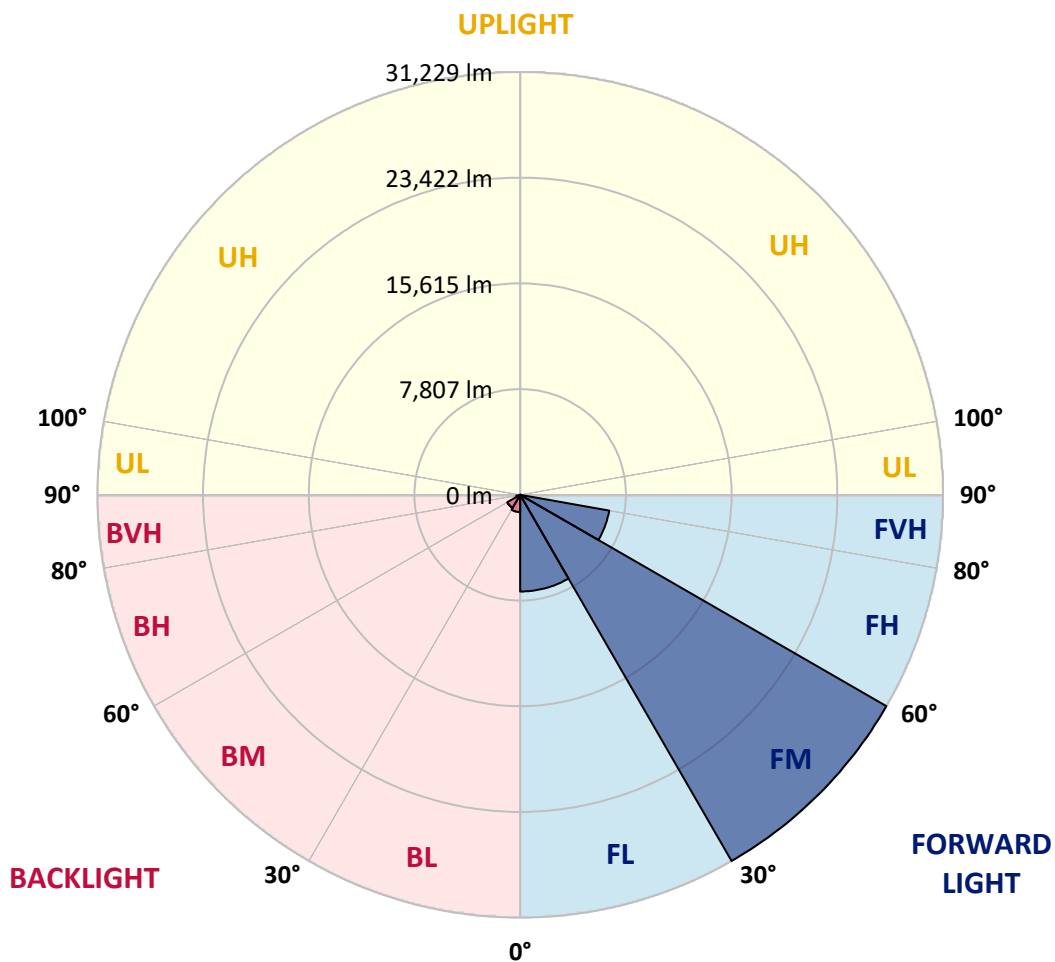
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7141.1	14.9			
FM	(30°-60°)	31229.3	65.3			
FH	(60°-80°)	6678.7	14.0			G3/7500
FVH	(80°-90°)	69.7	0.1			G1/100
BL	(0°-30°)	1274.0	2.7	B3/2500		
BM	(30°-60°)	1107.8	2.3	B2/2500		
BH	(60°-80°)	286.0	0.6	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	13452.1	13452.1	13452.1	13452.1	13452.1	13452.1	13452.1	13452.1	13452.1	13452.1	13452.1
2.5°	15917.0	15747.8	15697.0	15663.2	15508.0	15313.5	15048.4	14924.3	14670.5	14261.5	13759.5
5°	17375.0	17344.0	17231.2	17169.1	17002.7	16726.4	16303.3	16100.3	15697.0	15008.9	14109.2
7.5°	16737.6	16932.2	17087.3	17346.8	17673.9	17662.6	17307.3	17095.8	16644.6	15736.5	14498.4
10°	14275.6	14433.6	14687.4	15276.8	16478.2	17538.6	17955.9	17803.7	17442.7	16404.9	14873.5
12.5°	13793.4	13776.5	13821.6	13993.6	14622.5	16134.1	17846.0	18153.4	18080.0	17016.8	15228.8
15°	14050.0	14030.3	14024.6	14083.9	14236.2	14873.5	17019.6	17902.4	18469.2	17583.7	15530.6
17.5°	14769.2	14684.6	14639.4	14591.5	14546.4	14704.3	16027.0	17200.1	18528.4	18080.0	15781.6
20°	16001.6	15860.6	15694.2	15423.4	15169.6	15090.7	15609.6	16478.2	18316.9	18457.9	15945.2
22.5°	17549.8	17369.3	17081.7	16588.2	16072.1	15773.1	15815.4	16249.7	18001.1	18869.7	16021.3
25°	19289.9	19058.6	18675.1	17989.8	17231.2	16701.0	16424.6	16576.9	17857.2	19351.9	16108.7
27.5°	21154.0	20897.4	20395.4	19461.9	18601.8	17885.4	17321.4	17301.7	18102.6	19983.6	16249.7
30°	23001.2	22961.7	22307.4	21320.4	20181.0	19309.6	18497.4	18393.1	18787.9	20857.9	16528.9
32.5°	25466.0	25169.9	24369.0	23353.7	22039.5	20993.2	20031.6	19789.0	19839.8	21876.0	16960.4
35°	28573.8	28249.5	27121.5	25719.8	24250.5	23015.3	21952.1	21622.1	21498.1	23542.7	17688.0
37.5°	30581.8	30576.1	29868.3	28441.3	26864.8	25502.7	24346.4	23960.1	23709.1	25556.3	18816.1
40°	30635.4	30767.9	30861.0	30846.9	29724.5	28469.5	27442.9	26966.3	26382.6	28246.7	20274.1
42.5°	28991.2	29332.5	30153.1	31546.3	32211.8	31712.7	30846.9	30378.7	29510.1	31126.1	22050.8
45°	26768.9	27005.8	28441.3	31007.6	33559.9	34927.6	34267.7	33430.1	32285.2	34129.5	23644.2
47.5°	25773.4	25815.7	26743.6	29560.9	33661.4	37561.7	37962.1	36600.0	34806.4	36549.2	24890.7
50°	22798.2	22874.3	24154.6	27053.8	32471.3	38805.4	41673.5	40381.8	37556.0	38413.4	25344.8
52.5°	17183.2	17290.4	18914.8	22933.5	29199.9	38275.2	44330.0	44017.0	40568.0	39324.3	25370.1
55°	10138.5	10279.5	11830.6	15437.5	22967.4	34902.3	44527.5	45678.1	42945.4	39862.9	25330.7
57.5°	4735.0	4833.7	5722.1	7952.8	14284.1	27584.0	41555.0	44538.7	44256.7	40147.8	25609.8
60°	2515.6	2543.8	2758.1	3443.4	6455.3	17490.6	35754.0	40218.3	43061.0	40542.6	25951.1
62.5°	1923.3	1931.8	1920.5	2002.3	2713.0	7763.9	27025.6	33063.5	38247.0	40246.5	25573.2
65°	1666.7	1680.8	1601.8	1582.1	1740.0	2769.4	16055.2	23568.1	30054.4	36250.3	22998.4
67.5°	1494.7	1500.3	1404.4	1322.7	1350.9	1497.5	6334.1	12902.2	19893.4	26571.5	16669.9
70°	1376.2	1370.6	1266.3	1136.5	1099.9	1023.7	2013.6	4729.4	9506.7	13474.7	7752.6
72.5°	1218.3	1221.1	1170.4	1001.2	913.7	716.3	933.5	1379.1	2837.1	3671.8	1816.2
75°	1080.1	1066.0	1004.0	896.8	753.0	471.0	462.5	614.8	874.2	868.6	392.0
77.5°	781.2	767.1	786.8	736.1	578.1	304.6	231.3	296.1	355.3	344.1	110.0
80°	572.5	564.0	507.6	612.0	510.4	208.7	143.8	157.9	183.3	155.1	33.8
82.5°	392.0	389.2	358.2	338.4	290.5	126.9	90.2	98.7	118.4	87.4	16.9
85°	62.0	70.5	259.5	205.9	172.0	56.4	62.0	67.7	79.0	47.9	5.6
87.5°	0.0	0.0	121.3	107.2	33.8	22.6	36.7	39.5	39.5	25.4	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°	13452.1	13452.1	13452.1	13452.1	13452.1	13452.1	13452.1	13452.1	13452.1	13452.1	13452.1
2.5°	13502.9	13220.9	12699.2	12160.5	11661.3	11066.3	10657.4	10350.0	9994.6	9898.8	10107.4
5°	13596.0	13063.0	11940.5	10719.4	9571.6	8299.7	7326.8	6556.9	5860.3	5623.4	5837.7
7.5°	13742.6	12950.2	11119.9	9109.1	7112.4	5127.0	3767.7	2873.7	2304.1	2134.9	2225.1
10°	13889.3	12786.6	10169.5	7202.7	4472.8	2495.8	1624.4	1297.3	1176.0	1150.6	1164.7
12.5°	14010.5	12566.6	9010.4	5121.4	2391.5	1336.8	1063.2	1009.6	992.7	992.7	998.3
15°	14083.9	12233.8	7637.0	3257.3	1376.2	1009.6	927.8	910.9	910.9	913.7	919.4
17.5°	14075.4	11810.8	6133.8	1971.3	1029.4	894.0	846.0	831.9	829.1	834.8	837.6
20°	13971.1	11258.1	4625.1	1300.1	896.8	815.0	767.1	741.7	738.9	744.5	750.2
22.5°	13773.6	10575.6	3308.0	1001.2	809.4	738.9	679.7	657.1	657.1	662.7	668.4
25°	13533.9	9740.8	2261.8	848.9	730.4	657.1	600.7	581.0	586.6	600.7	603.5
27.5°	13235.0	8801.7	1537.0	727.6	634.5	575.3	533.0	518.9	533.0	552.8	558.4
30°	12978.4	7823.1	1097.0	628.9	538.7	496.3	471.0	471.0	490.7	527.4	535.8
32.5°	12781.0	6875.5	846.0	555.6	468.1	431.5	417.4	431.5	462.5	499.2	507.6
35°	12755.6	6094.4	716.3	496.3	417.4	380.7	375.1	400.5	431.5	459.7	465.3
37.5°	12950.2	5372.4	645.8	448.4	372.3	338.4	332.8	363.8	394.8	428.7	437.1
40°	13319.6	4805.5	595.1	403.3	335.6	298.9	287.7	310.2	352.5	397.6	408.9
42.5°	13799.0	4337.4	538.7	358.2	298.9	248.2	234.1	259.5	304.6	352.5	366.6
45°	14255.9	3934.1	476.6	307.4	251.0	191.8	186.1	220.0	242.5	290.5	301.8
47.5°	14506.9	3578.8	423.0	251.0	194.6	155.1	155.1	163.6	186.1	242.5	253.8
50°	14422.3	3293.9	366.6	186.1	135.4	118.4	118.4	115.6	149.5	194.6	203.1
52.5°	14253.1	3130.4	315.9	143.8	93.1	84.6	76.1	84.6	104.3	124.1	126.9
55°	14227.7	3102.2	265.1	115.6	64.9	56.4	42.3	42.3	42.3	39.5	33.8
57.5°	14425.1	3147.3	222.8	93.1	47.9	36.7	22.6	0.0	0.0	0.0	0.0
60°	14628.2	3195.2	191.8	64.9	33.8	19.7	2.8	0.0	0.0	0.0	0.0
62.5°	14289.7	3088.1	160.7	39.5	25.4	8.5	0.0	0.0	0.0	0.0	0.0
65°	12552.5	2628.4	126.9	28.2	16.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8928.6	1759.8	84.6	16.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	4075.1	736.1	53.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	871.4	228.4	36.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	177.7	166.4	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	56.4	262.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.8	189.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.6	28.2	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)