

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: P321333

Luminaire Tested: **GAN-SA9C-750-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321333  
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-SA9C-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 1050mA 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: 51039 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5

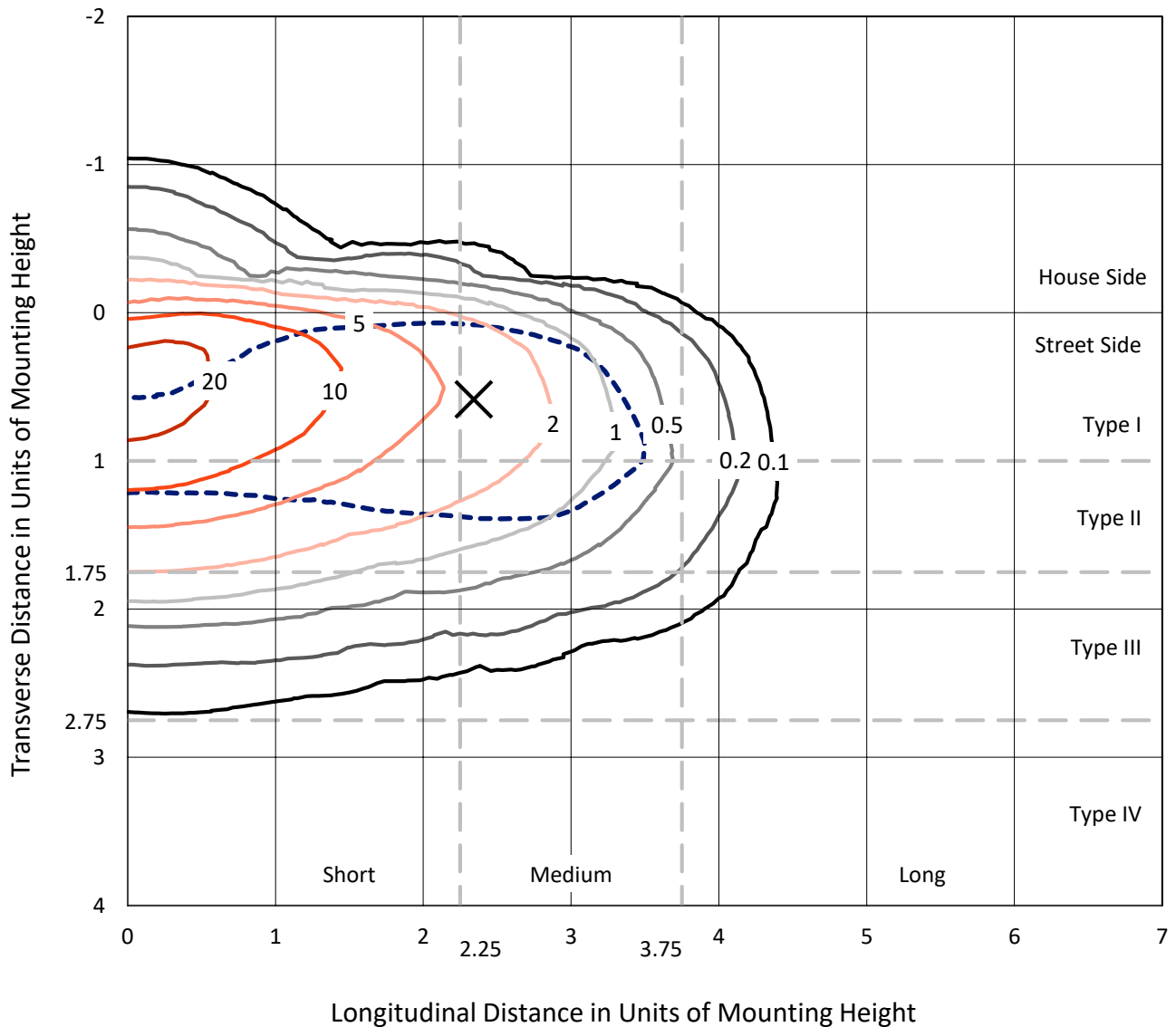
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

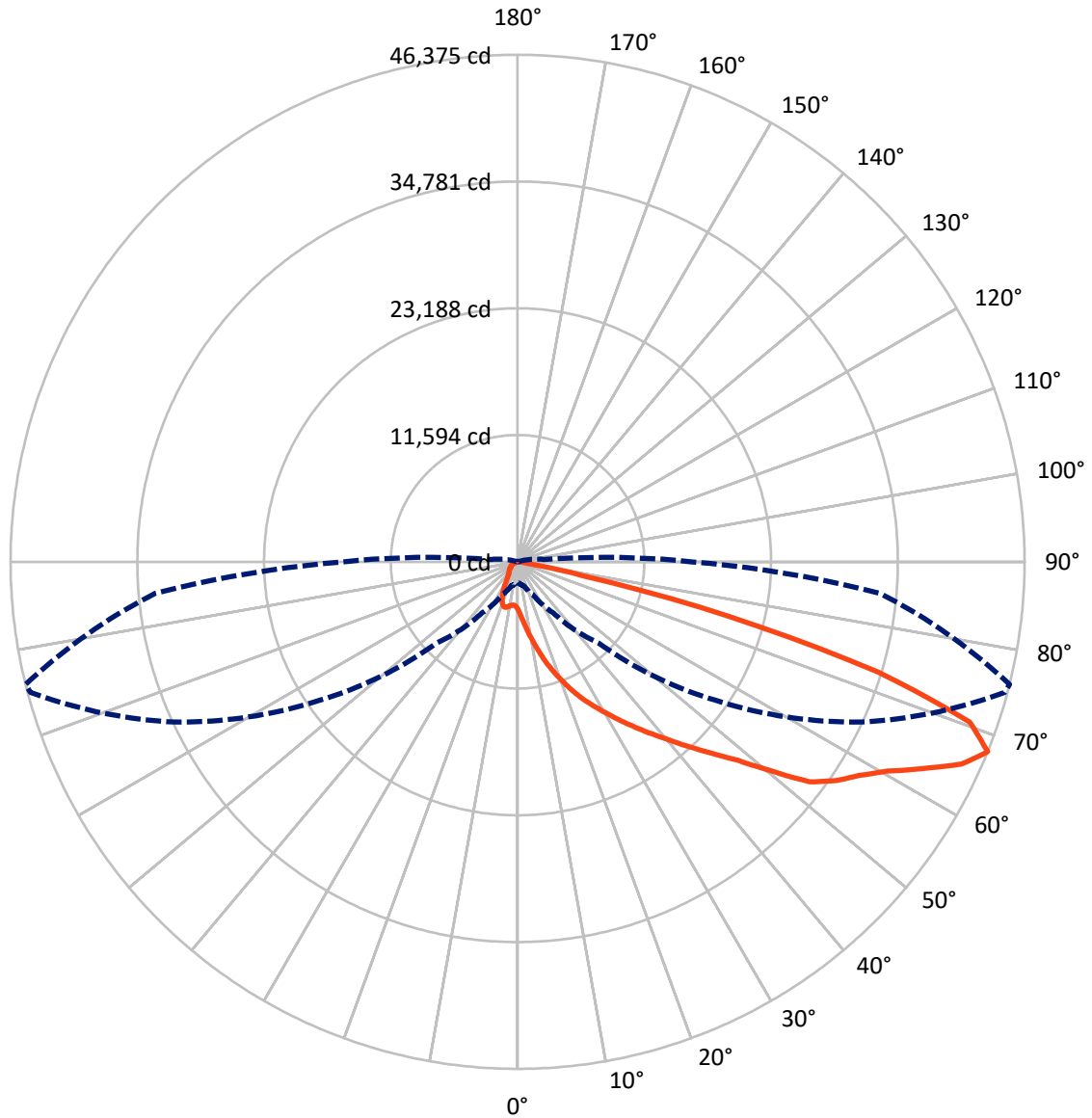
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 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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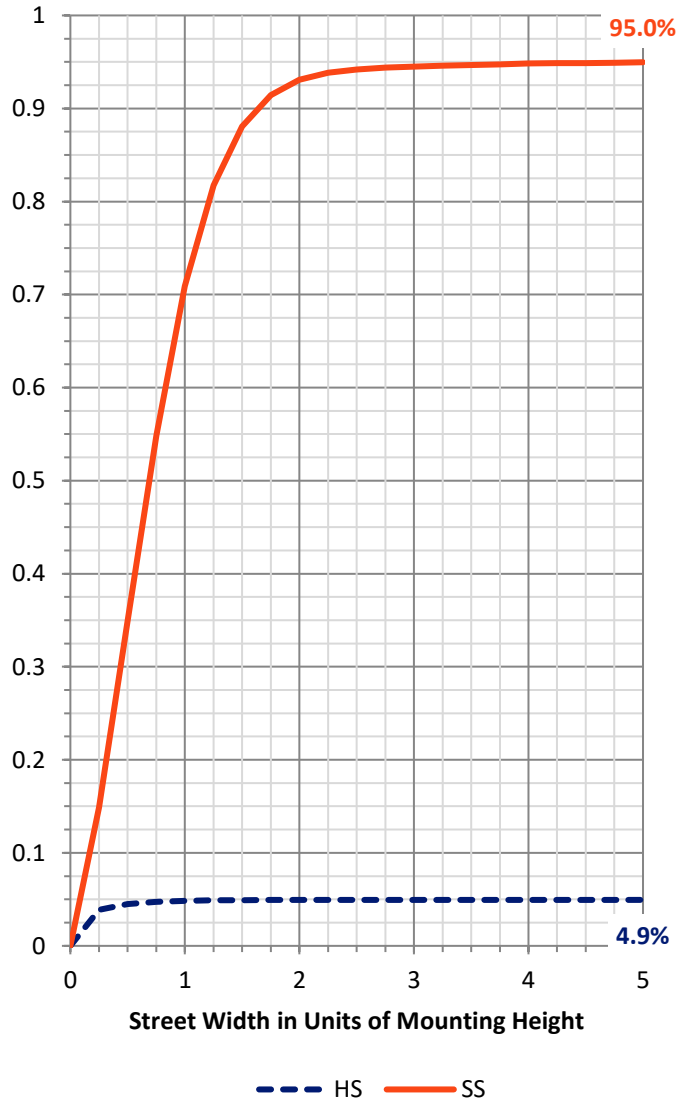
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2534.5	0.0	2534.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	48504.5	0.0	48504.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	51039.0	0.0	51039.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.4	1.1
10°-20°	2134.2	4.2
20°-30°	4342.4	8.5
30°-40°	7537.0	14.8
40°-50°	10648.8	20.9
50°-60°	12076.3	23.7
60°-70°	10016.1	19.6
70°-80°	3628.1	7.1
80°-90°	117.7	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°	51039.0	100.0
0°-180°	51039.0	100.0

**Coefficient of Utilization**

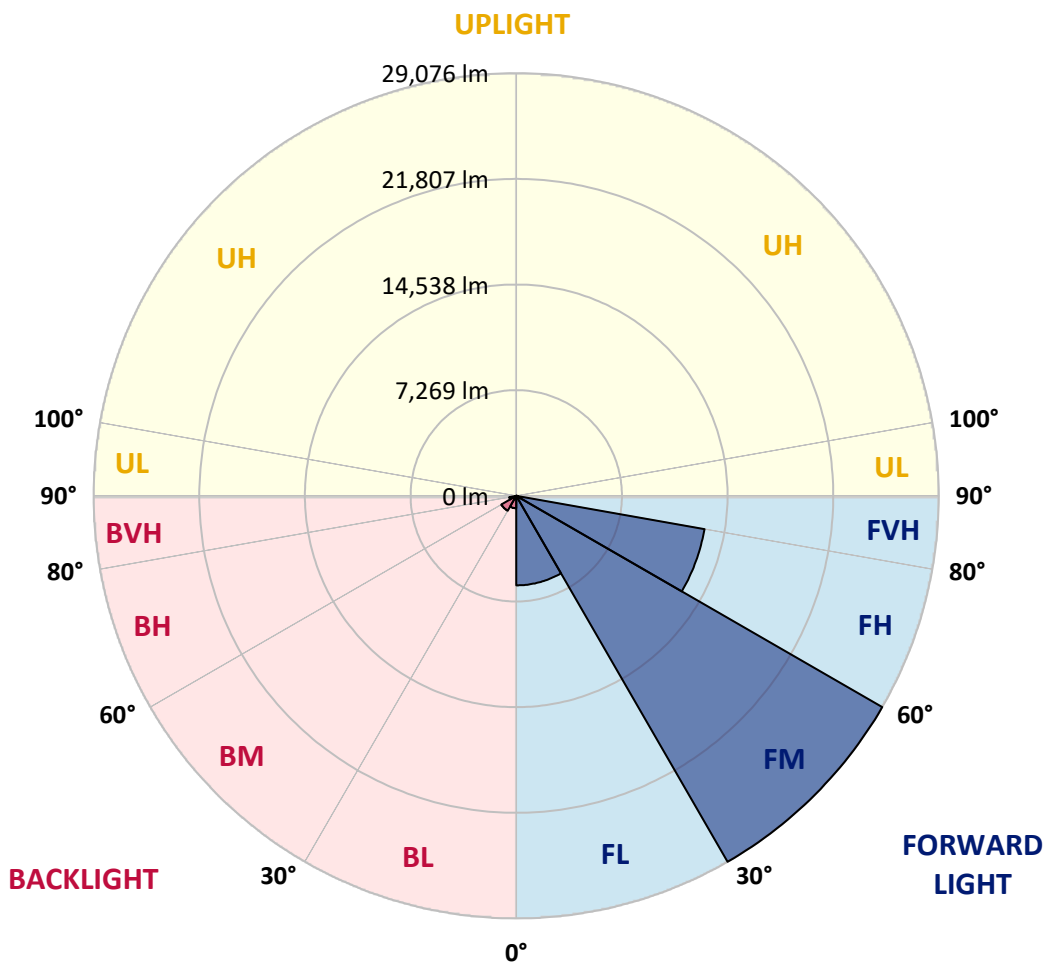


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6160.2	12.1			
FM (30°-60°)	29075.9	57.0			
FH (60°-80°)	13154.5	25.8			G5
FVH (80°-90°)	114.0	0.2			G2/225
BL (0°-30°)	854.7	1.7	B2/1000		
BM (30°-60°)	1186.2	2.3	B2/2500		
BH (60°-80°)	489.8	1.0	B1/500		G1/500
BVH (80°-90°)	3.7	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-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6
2.5°	6463.1	6317.7	6351.3	6257.3	6087.4	5738.5	5441.1	5159.3	4830.5	4819.3	4548.7
5°	8715.1	8592.1	8576.4	8386.3	8077.7	7485.1	6908.1	6250.6	5517.1	5463.4	4888.7
7.5°	10759.1	10660.7	10624.9	10399.1	9824.3	9247.3	8495.9	7529.8	6382.6	6284.2	5347.1
10°	12329.0	12282.1	12291.0	12130.0	11638.0	11101.3	10115.0	8882.8	7364.3	7212.2	5897.3
12.5°	13518.8	13530.0	13610.5	13512.1	13237.0	12838.9	11785.6	10325.3	8451.2	8243.2	6525.7
15°	14393.2	14449.1	14596.7	14719.7	14699.6	14355.2	13389.1	11790.1	9605.1	9374.8	7225.7
17.5°	14959.0	15021.6	15236.3	15509.1	15759.6	15679.1	14936.6	13203.4	10772.5	10506.4	7974.8
20°	15455.5	15529.3	15759.6	16119.7	16587.1	16687.7	16200.2	14574.3	11937.7	11613.4	8748.6
22.5°	16531.1	16528.9	16669.8	16880.0	17325.1	17584.5	17275.9	15846.8	13089.4	12751.7	9538.1
25°	18476.8	18403.0	18353.8	18188.3	18286.7	18447.7	18275.5	17036.6	14247.8	13905.7	10338.7
27.5°	20789.2	20833.9	20435.8	19990.8	19646.4	19480.9	19199.1	18139.1	15361.5	14985.8	11121.4
30°	23229.0	23242.4	22772.8	22204.8	21446.7	20818.2	20330.7	19192.4	16506.5	16097.3	11881.8
32.5°	25429.6	25342.4	24877.2	24103.4	23146.3	22439.6	21426.5	20368.7	17718.6	17322.8	12727.1
35°	27174.0	27071.1	26505.3	25800.8	24807.9	24096.7	22877.9	21542.8	18993.4	18606.5	13574.7
37.5°	28448.7	28327.9	27746.5	27021.9	26165.4	25751.6	24561.9	22819.8	20384.4	19968.4	14467.0
40°	28891.5	28786.4	28421.8	27891.8	27203.0	27109.1	26348.7	24289.1	21898.4	21455.6	15477.8
42.5°	28627.6	28524.7	28395.0	28216.1	27929.9	28019.3	28035.0	25964.1	23580.1	23144.0	16593.8
45°	27581.0	27489.3	27623.5	27885.1	28240.7	28683.5	29573.6	27764.4	25458.7	24993.5	17884.1
47.5°	26040.1	25973.0	26344.3	26997.3	28037.2	29258.2	30980.2	29656.3	27567.6	27135.9	19494.3
50°	23848.5	23837.3	24579.8	25771.8	27370.8	29535.6	32433.9	31807.7	30497.2	30043.2	21732.9
52.5°	20435.8	20458.2	21918.5	23826.1	26201.1	29347.7	33368.7	34571.8	33905.4	33433.5	23671.8
55°	17186.4	17320.6	18356.0	21106.7	24407.6	28650.0	33690.7	35862.2	35786.2	35338.9	24749.8
57.5°	14004.1	14247.8	15245.2	17814.8	21788.8	27042.0	33514.0	36421.3	37186.1	36844.0	26172.1
60°	10555.6	10667.4	11816.9	14218.8	18427.6	24107.9	32232.6	36725.4	39100.5	38863.4	28236.2
62.5°	6715.8	6995.3	8015.1	10332.0	14348.5	20033.3	30072.3	36721.0	41495.6	41625.3	30899.7
65°	3537.9	3864.4	4405.6	6402.7	9860.1	15482.3	26822.9	36376.6	44434.2	44615.3	32981.8
67.5°	1907.6	2001.5	2287.8	3323.2	5718.4	10488.5	22048.2	34676.9	46136.0	46375.3	33272.5
70°	1395.5	1446.9	1554.3	1838.3	2878.2	6091.8	16088.3	30823.7	43942.2	43852.7	29562.4
72.5°	1071.2	1151.7	1232.2	1346.3	1654.9	3251.7	10016.6	24137.0	35061.6	34471.2	22097.4
75°	845.3	858.8	972.8	1075.7	1241.2	1851.7	4448.1	14057.7	21399.7	20002.0	11459.1
77.5°	675.4	684.3	751.4	840.9	997.4	1216.6	1377.6	5530.5	6832.1	6096.3	2486.8
80°	400.3	422.7	559.1	648.5	827.5	767.1	503.2	1200.9	1066.7	966.1	418.2
82.5°	223.6	241.5	315.3	512.1	577.0	366.8	250.5	324.3	250.5	243.8	118.5
85°	0.0	11.2	203.5	317.6	234.8	80.5	105.1	107.3	73.8	69.3	47.0
87.5°	0.0	0.0	62.6	60.4	8.9	13.4	24.6	35.8	29.1	29.1	24.6
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°	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6	4329.6
2.5°	4414.6	4293.8	4065.7	3842.1	3654.2	3499.9	3361.2	3305.3	3260.6	3253.9	3218.1
5°	4611.4	4367.6	3931.5	3573.7	3334.4	3164.4	3019.1	2929.6	2860.3	2833.5	2808.9
7.5°	4908.8	4539.8	3913.6	3502.1	3215.9	2929.6	2661.3	2370.5	2189.4	2120.1	2079.8
10°	5271.1	4767.9	3980.7	3482.0	2981.1	2377.2	1932.2	1563.2	1413.4	1364.2	1350.8
12.5°	5693.8	5051.9	4097.0	3356.8	2480.1	1688.4	1332.9	1207.6	1174.1	1158.4	1158.4
15°	6179.1	5362.8	4179.7	2994.5	1833.8	1277.0	1154.0	1095.8	1060.0	1039.9	1042.1
17.5°	6675.5	5666.9	4139.5	2468.9	1353.0	1136.1	1044.4	981.8	932.6	912.4	908.0
20°	7176.5	5948.7	3915.9	1838.3	1145.0	1031.0	928.1	858.8	809.6	789.4	785.0
22.5°	7695.3	6188.0	3522.3	1348.5	1028.7	914.7	814.0	744.7	697.7	679.9	670.9
25°	8200.7	6382.6	2972.1	1091.3	919.1	805.1	708.9	644.1	601.6	583.7	581.5
27.5°	8672.6	6505.6	2334.8	963.9	823.0	706.7	619.5	561.3	525.5	512.1	509.9
30°	9097.5	6516.7	1726.5	869.9	738.0	621.7	541.2	489.8	458.5	445.0	440.6
32.5°	9526.9	6422.8	1256.8	785.0	659.7	547.9	469.6	429.4	407.0	395.8	395.8
35°	9931.7	6205.9	979.5	711.2	583.7	476.3	413.7	384.7	371.2	360.1	360.1
37.5°	10327.5	5895.0	831.9	646.3	512.1	416.0	364.5	346.6	335.5	324.3	324.3
40°	10730.0	5503.7	755.9	585.9	454.0	369.0	324.3	308.6	297.4	288.5	286.3
42.5°	11224.3	5051.9	706.7	530.0	402.5	326.5	286.3	268.4	259.4	250.5	246.0
45°	11796.8	4662.8	666.4	474.1	360.1	290.7	248.2	230.3	216.9	205.7	203.5
47.5°	12622.0	4381.0	612.8	413.7	319.8	252.7	214.7	194.6	174.4	163.3	161.0
50°	13675.3	4148.4	543.4	360.1	279.5	214.7	178.9	154.3	136.4	125.2	125.2
52.5°	14198.6	3844.3	480.8	313.1	234.8	181.1	145.4	116.3	107.3	96.2	96.2
55°	14408.8	3611.7	418.2	266.1	194.6	149.8	114.1	89.5	82.7	76.0	73.8
57.5°	14999.2	3544.6	364.5	225.9	161.0	118.5	87.2	67.1	62.6	53.7	53.7
60°	15949.7	3578.2	315.3	192.3	129.7	91.7	64.9	51.4	47.0	38.0	38.0
62.5°	16976.2	3535.7	266.1	165.5	100.6	67.1	44.7	38.0	38.0	22.4	20.1
65°	17173.0	3148.8	228.1	136.4	78.3	49.2	29.1	24.6	33.5	4.5	0.0
67.5°	15938.5	2442.1	196.8	105.1	58.1	38.0	22.4	11.2	29.1	0.0	0.0
70°	12745.0	1552.0	158.8	76.0	44.7	31.3	17.9	4.5	22.4	0.0	0.0
72.5°	9012.5	901.3	125.2	53.7	38.0	24.6	13.4	0.0	13.4	0.0	0.0
75°	4557.7	480.8	78.3	40.3	29.1	17.9	8.9	0.0	2.2	0.0	0.0
77.5°	986.2	223.6	49.2	29.1	20.1	11.2	4.5	0.0	0.0	0.0	0.0
80°	214.7	98.4	31.3	17.9	11.2	6.7	0.0	0.0	0.0	0.0	0.0
82.5°	78.3	51.4	15.7	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.5	26.8	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.4	8.9	2.2	2.2	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)