

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: P321273

Luminaire Tested: **GAN-SA9A-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321273
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-SA9A-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 33629 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

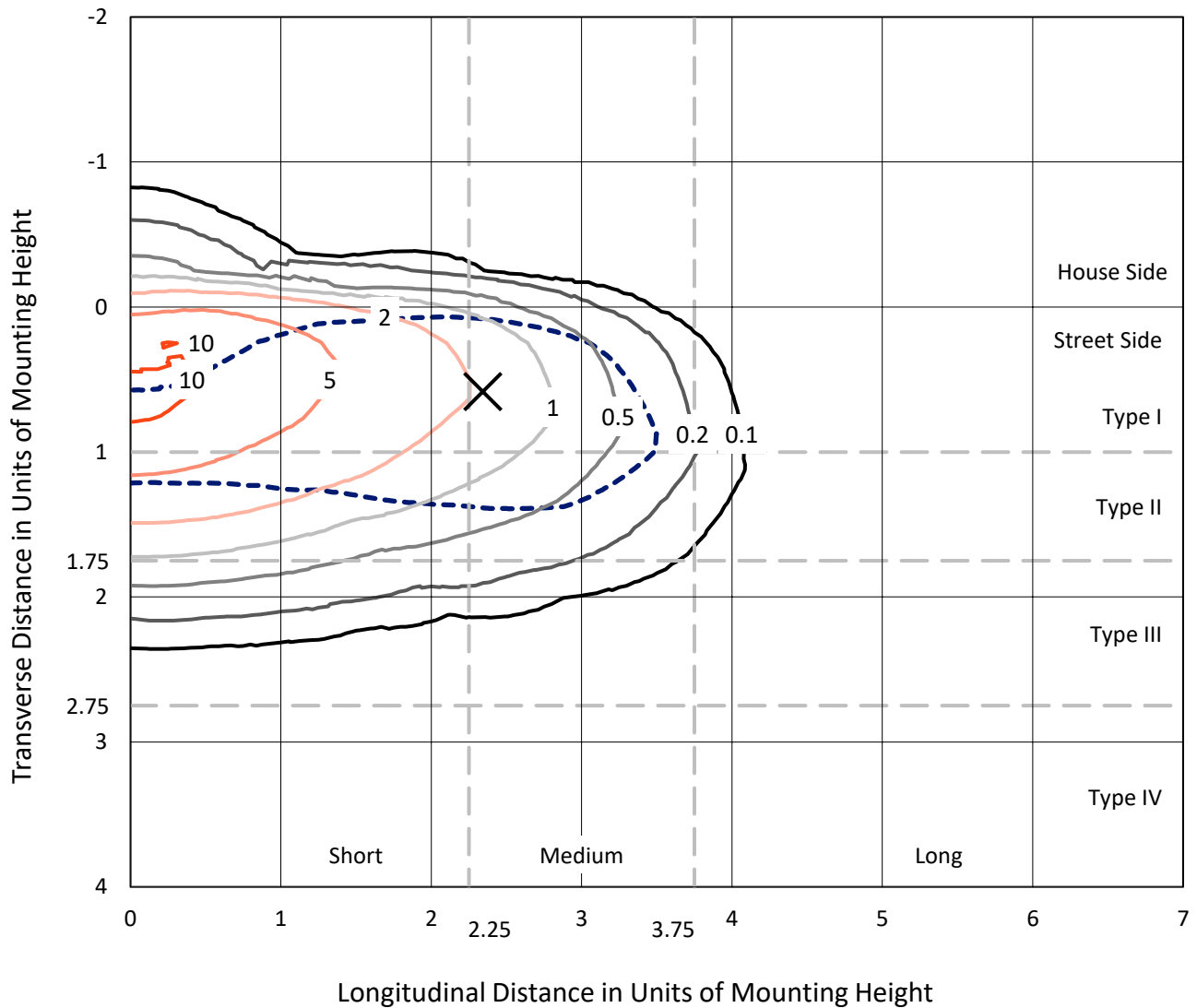
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

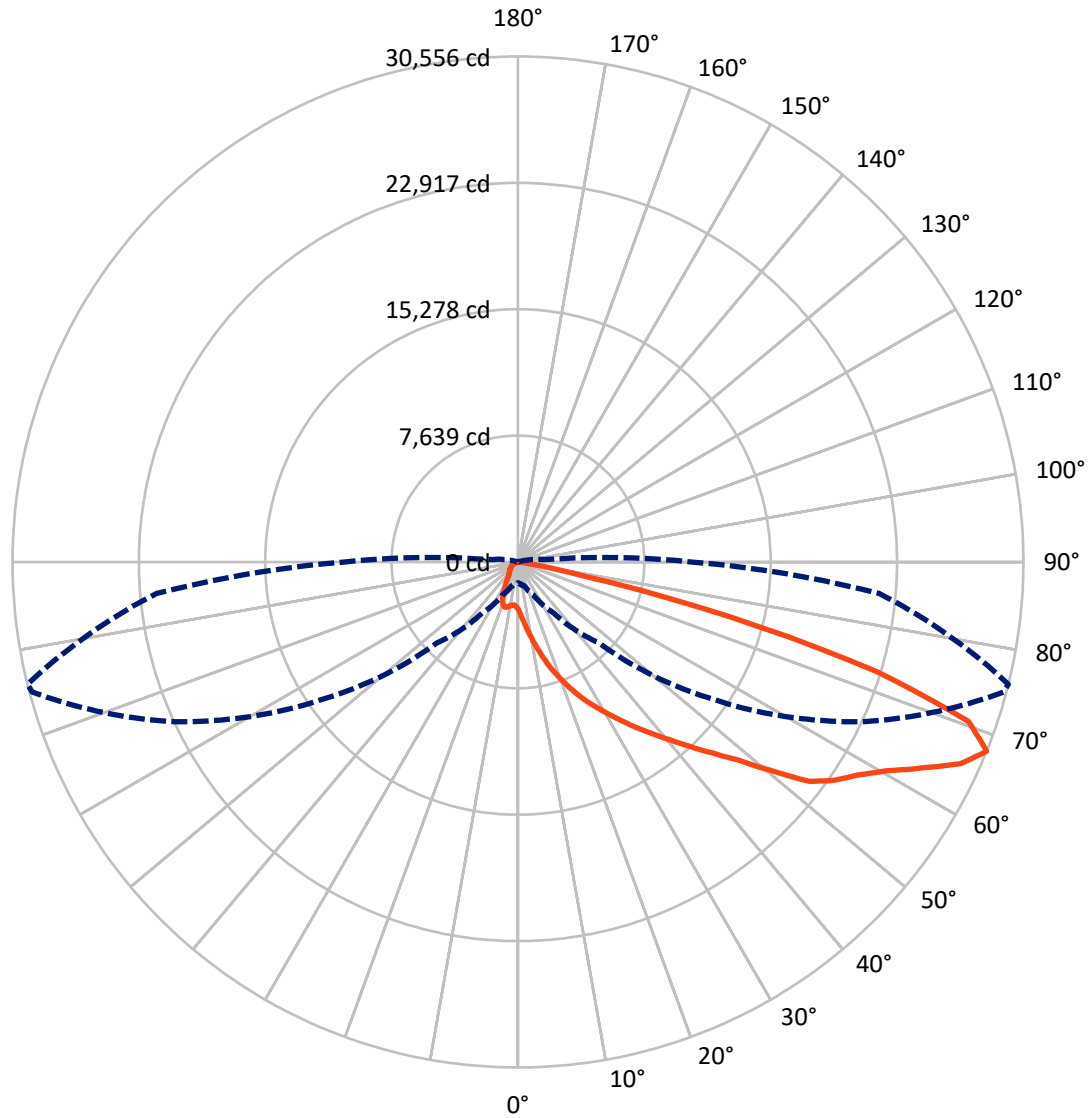
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 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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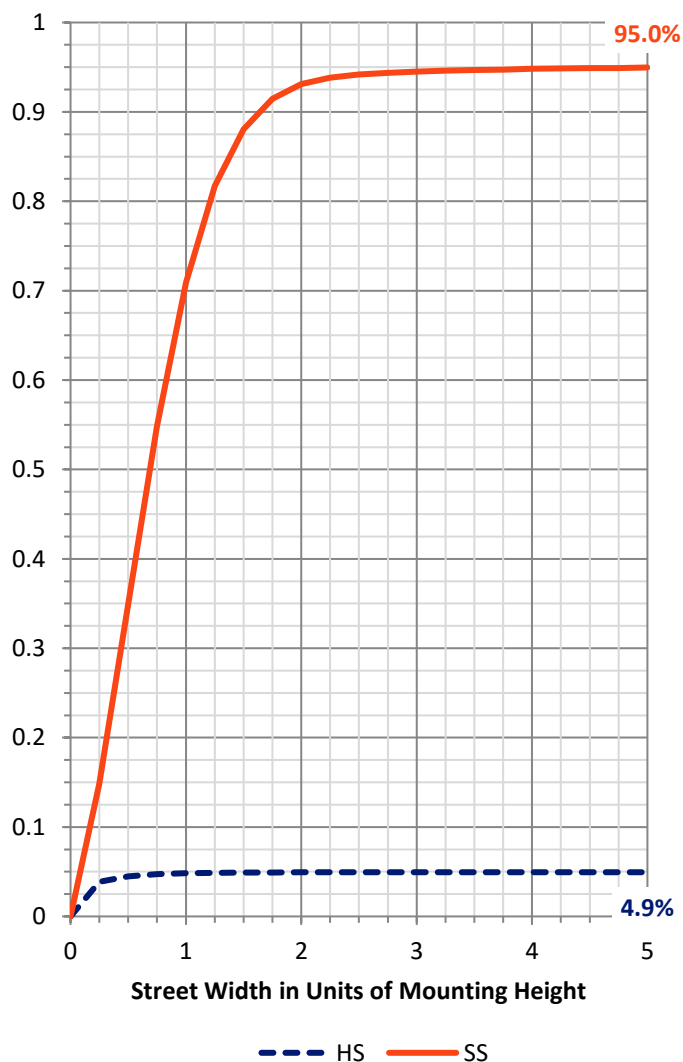
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1669.9	0.0	1669.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	31959.1	0.0	31959.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	33629.0	0.0	33629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.7	1.1
10°-20°	1406.2	4.2
20°-30°	2861.2	8.5
30°-40°	4966.0	14.8
40°-50°	7016.4	20.9
50°-60°	7956.9	23.7
60°-70°	6599.5	19.6
70°-80°	2390.5	7.1
80°-90°	77.5	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°	33629.0	100.0
0°-180°	33629.0	100.0

Coefficient of Utilization



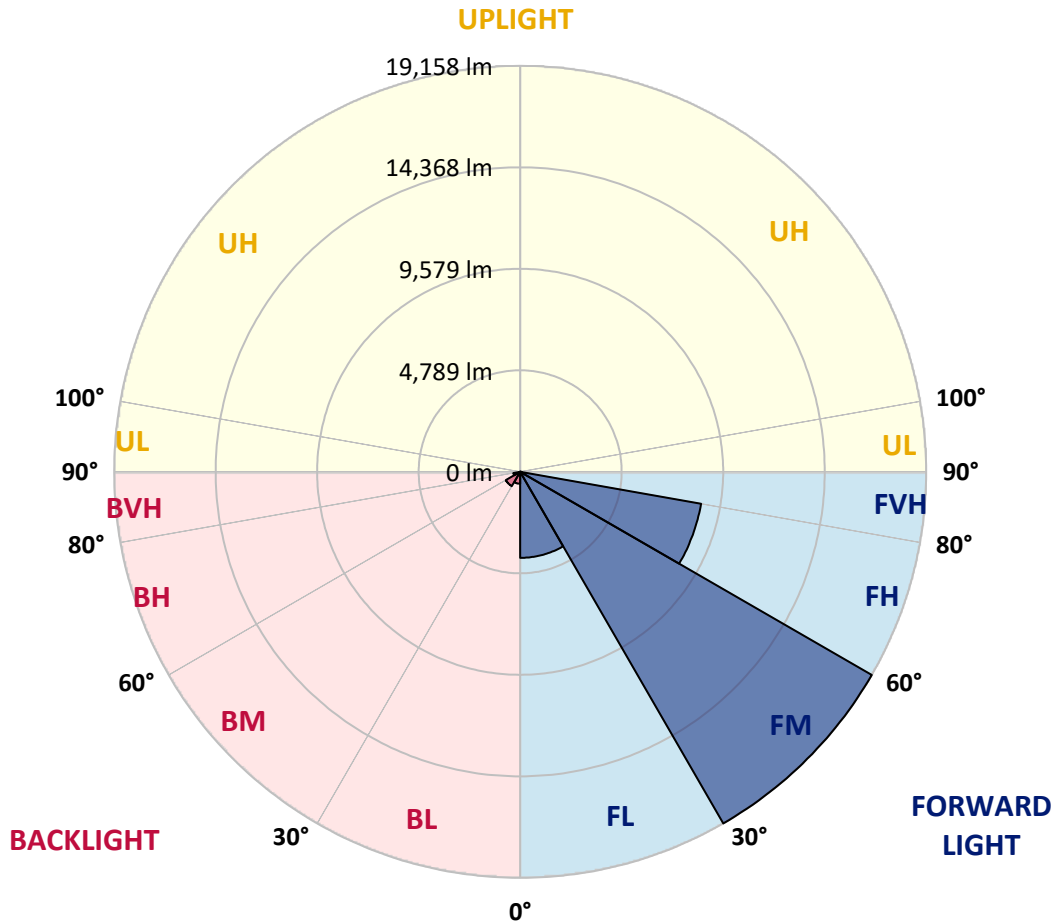
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4058.9	12.1			
FM (30°-60°)	19157.8	57.0			
FH (60°-80°)	8667.3	25.8			G4/12000
FVH (80°-90°)	75.1	0.2			G1/100
BL (0°-30°)	563.2	1.7	B2/1000		
BM (30°-60°)	781.6	2.3	B1/1000		
BH (60°-80°)	322.7	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°	2852.7	2852.7	2852.7	2852.7	2852.7	2852.7	2852.7	2852.7	2852.7	2852.7	2852.7
2.5°	4258.4	4162.7	4184.8	4122.9	4010.9	3781.0	3585.0	3399.4	3182.8	3175.4	2997.1
5°	5742.3	5661.2	5650.9	5525.7	5322.3	4931.8	4551.7	4118.5	3635.1	3599.8	3221.1
7.5°	7089.1	7024.2	7000.6	6851.8	6473.1	6093.0	5597.9	4961.3	4205.4	4140.6	3523.2
10°	8123.5	8092.5	8098.4	7992.3	7668.1	7314.5	6664.7	5852.8	4852.3	4752.1	3885.6
12.5°	8907.4	8914.7	8967.8	8902.9	8721.7	8459.4	7765.4	6803.2	5568.4	5431.4	4299.7
15°	9483.5	9520.3	9617.6	9698.6	9685.4	9458.5	8821.9	7768.3	6328.7	6176.9	4760.9
17.5°	9856.3	9897.6	10039.0	10218.8	10383.8	10330.8	9841.6	8699.6	7097.9	6922.5	5254.5
20°	10183.4	10232.0	10383.8	10621.1	10929.0	10995.3	10674.1	9602.9	7865.6	7651.9	5764.4
22.5°	10892.2	10890.7	10983.5	11122.0	11415.3	11586.2	11382.9	10441.3	8624.4	8401.9	6284.5
25°	12174.1	12125.5	12093.1	11984.0	12048.9	12155.0	12041.5	11225.2	9387.7	9162.3	6812.0
27.5°	13697.7	13727.2	13464.9	13171.7	12944.8	12835.7	12650.1	11951.6	10121.5	9874.0	7327.8
30°	15305.3	15314.2	15004.7	14630.5	14131.0	13716.9	13395.7	12645.7	10876.0	10606.3	7828.8
32.5°	16755.3	16697.8	16391.3	15881.5	15250.8	14785.2	14117.7	13420.7	11674.6	11413.8	8385.7
35°	17904.6	17836.8	17464.0	16999.9	16345.6	15877.1	15074.0	14194.3	12514.5	12259.6	8944.2
37.5°	18744.5	18664.9	18281.8	17804.4	17240.1	16967.5	16183.5	15035.7	13431.0	13157.0	9532.1
40°	19036.3	18967.0	18726.8	18377.6	17923.8	17861.9	17360.9	16003.8	14428.6	14136.8	10198.2
42.5°	18862.4	18794.6	18709.1	18591.3	18402.7	18461.6	18471.9	17107.4	15536.7	15249.3	10933.4
45°	18172.8	18112.4	18200.8	18373.2	18607.5	18899.2	19485.7	18293.6	16774.4	16467.9	11783.7
47.5°	17157.5	17113.3	17357.9	17788.2	18473.4	19277.9	20412.5	19540.2	18163.9	17879.6	12844.6
50°	15713.5	15706.1	16195.3	16980.7	18034.3	19460.6	21370.3	20957.7	20094.2	19795.1	14319.6
52.5°	13464.9	13479.7	14441.9	15698.8	17263.6	19336.9	21986.2	22779.0	22339.9	22029.0	15597.1
55°	11323.9	11412.3	12094.6	13907.0	16081.9	18877.1	22198.4	23629.2	23579.1	23284.4	16307.3
57.5°	9227.1	9387.7	10044.9	11738.0	14356.4	17817.7	22082.0	23997.6	24501.5	24276.1	17244.5
60°	6955.0	7028.6	7786.0	9368.6	12141.7	15884.4	21237.7	24198.0	25762.8	25606.6	18604.5
62.5°	4424.9	4609.1	5281.1	6807.6	9454.0	13199.7	19814.3	24195.0	27341.0	27426.4	20359.5
65°	2331.1	2546.2	2902.8	4218.7	6496.7	10201.1	17673.3	23968.1	29277.1	29396.5	21731.3
67.5°	1256.9	1318.8	1507.4	2189.6	3767.8	6910.8	14527.3	22848.2	30398.5	30556.2	21922.9
70°	919.5	953.4	1024.1	1211.2	1896.4	4013.8	10600.4	20309.4	28953.0	28894.0	19478.3
72.5°	705.8	758.9	811.9	887.1	1090.4	2142.5	6599.8	15903.6	23101.7	22712.7	14559.7
75°	557.0	565.8	641.0	708.8	817.8	1220.1	2930.8	9262.5	14100.0	13179.1	7550.3
77.5°	445.0	450.9	495.1	554.0	657.2	801.6	907.7	3644.0	4501.6	4016.8	1638.5
80°	263.8	278.5	368.4	427.3	545.2	505.4	331.5	791.3	702.9	636.6	275.5
82.5°	147.4	159.1	207.8	337.4	380.2	241.7	165.0	213.7	165.0	160.6	78.1
85°	0.0	7.4	134.1	209.2	154.7	53.0	69.3	70.7	48.6	45.7	30.9
87.5°	0.0	0.0	41.3	39.8	5.9	8.8	16.2	23.6	19.2	19.2	16.2
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°	2852.7	2852.7	2852.7	2852.7	2852.7	2852.7	2852.7	2852.7	2852.7	2852.7	2852.7
2.5°	2908.7	2829.1	2678.8	2531.5	2407.7	2306.0	2214.7	2177.8	2148.4	2144.0	2120.4
5°	3038.4	2877.8	2590.4	2354.7	2197.0	2085.0	1989.2	1930.3	1884.6	1866.9	1850.7
7.5°	3234.4	2991.2	2578.6	2307.5	2118.9	1930.3	1753.5	1561.9	1442.6	1396.9	1370.4
10°	3473.1	3141.5	2622.8	2294.3	1964.2	1566.3	1273.1	1030.0	931.3	898.8	890.0
12.5°	3751.6	3328.7	2699.5	2211.7	1634.1	1112.5	878.2	795.7	773.6	763.3	763.3
15°	4071.3	3533.5	2754.0	1973.0	1208.3	841.4	760.3	722.0	698.4	685.2	686.7
17.5°	4398.4	3733.9	2727.5	1626.8	891.5	748.5	688.1	646.9	614.5	601.2	598.2
20°	4728.5	3919.5	2580.1	1211.2	754.4	679.3	611.5	565.8	533.4	520.1	517.2
22.5°	5070.3	4077.2	2320.8	888.5	677.8	602.7	536.4	490.7	459.7	447.9	442.1
25°	5403.4	4205.4	1958.3	719.1	605.6	530.5	467.1	424.4	396.4	384.6	383.1
27.5°	5714.3	4286.4	1538.3	635.1	542.3	465.6	408.2	369.9	346.3	337.4	336.0
30°	5994.2	4293.8	1137.5	573.2	486.3	409.6	356.6	322.7	302.1	293.2	290.3
32.5°	6277.1	4231.9	828.1	517.2	434.7	361.0	309.4	282.9	268.2	260.8	260.8
35°	6543.9	4089.0	645.4	468.6	384.6	313.9	272.6	253.4	244.6	237.2	237.2
37.5°	6804.7	3884.2	548.1	425.8	337.4	274.1	240.2	228.4	221.0	213.7	213.7
40°	7069.9	3626.3	498.0	386.1	299.1	243.1	213.7	203.3	196.0	190.1	188.6
42.5°	7395.5	3328.7	465.6	349.2	265.2	215.1	188.6	176.8	170.9	165.0	162.1
45°	7772.8	3072.3	439.1	312.4	237.2	191.6	163.6	151.8	142.9	135.6	134.1
47.5°	8316.5	2886.6	403.7	272.6	210.7	166.5	141.5	128.2	114.9	107.6	106.1
50°	9010.5	2733.4	358.1	237.2	184.2	141.5	117.9	101.7	89.9	82.5	82.5
52.5°	9355.3	2533.0	316.8	206.3	154.7	119.4	95.8	76.6	70.7	63.4	63.4
55°	9493.8	2379.7	275.5	175.3	128.2	98.7	75.1	58.9	54.5	50.1	48.6
57.5°	9882.8	2335.5	240.2	148.8	106.1	78.1	57.5	44.2	41.3	35.4	35.4
60°	10509.1	2357.6	207.8	126.7	85.5	60.4	42.7	33.9	30.9	25.0	25.0
62.5°	11185.4	2329.6	175.3	109.0	66.3	44.2	29.5	25.0	25.0	14.7	13.3
65°	11315.1	2074.7	150.3	89.9	51.6	32.4	19.2	16.2	22.1	2.9	0.0
67.5°	10501.7	1609.1	129.7	69.3	38.3	25.0	14.7	7.4	19.2	0.0	0.0
70°	8397.5	1022.6	104.6	50.1	29.5	20.6	11.8	2.9	14.7	0.0	0.0
72.5°	5938.2	593.8	82.5	35.4	25.0	16.2	8.8	0.0	8.8	0.0	0.0
75°	3003.0	316.8	51.6	26.5	19.2	11.8	5.9	0.0	1.5	0.0	0.0
77.5°	649.8	147.4	32.4	19.2	13.3	7.4	2.9	0.0	0.0	0.0	0.0
80°	141.5	64.8	20.6	11.8	7.4	4.4	0.0	0.0	0.0	0.0	0.0
82.5°	51.6	33.9	10.3	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.0	17.7	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	5.9	1.5	1.5	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)