

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: P321873

Luminaire Tested: **GAN-SA9A-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26990 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

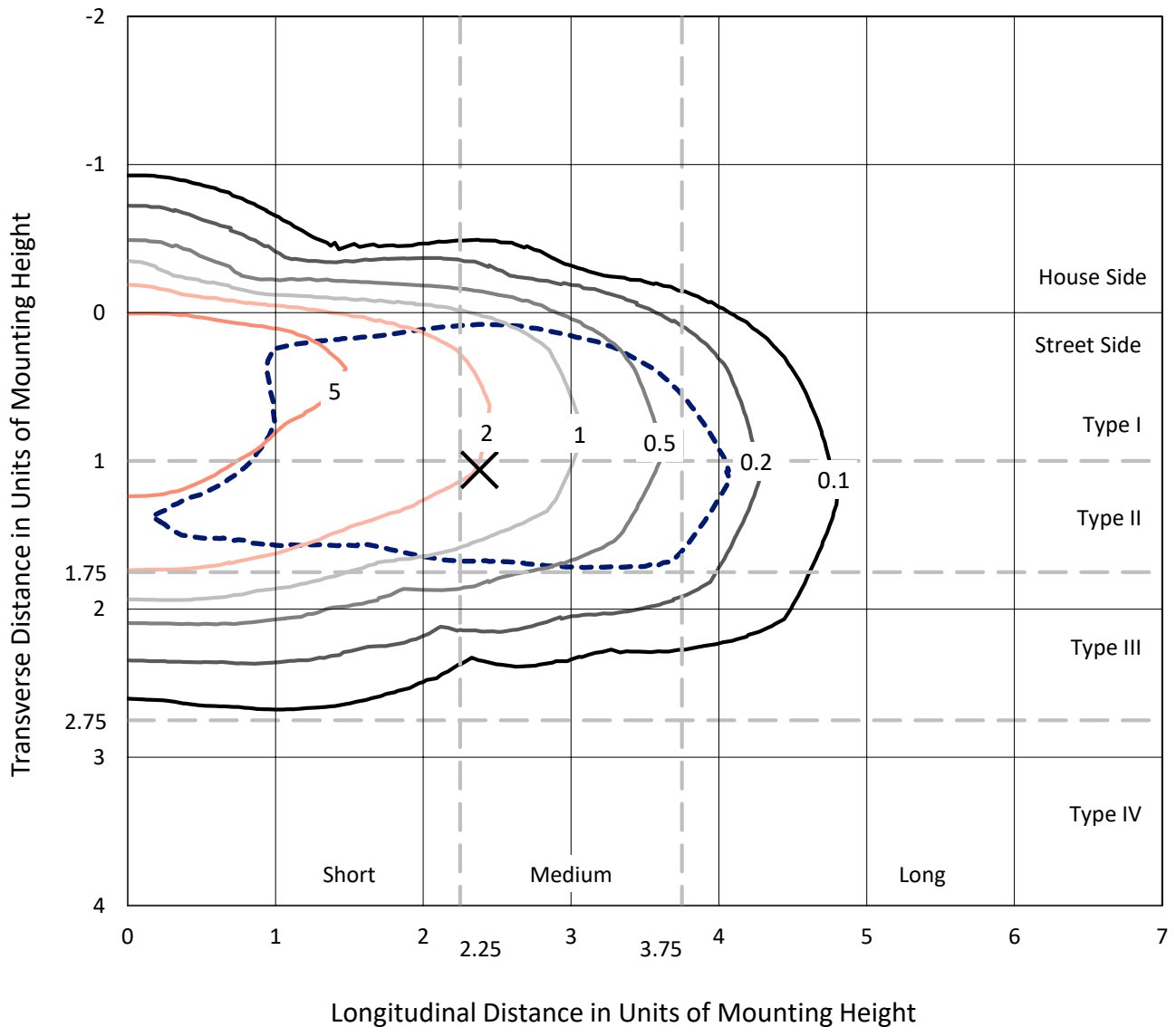
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

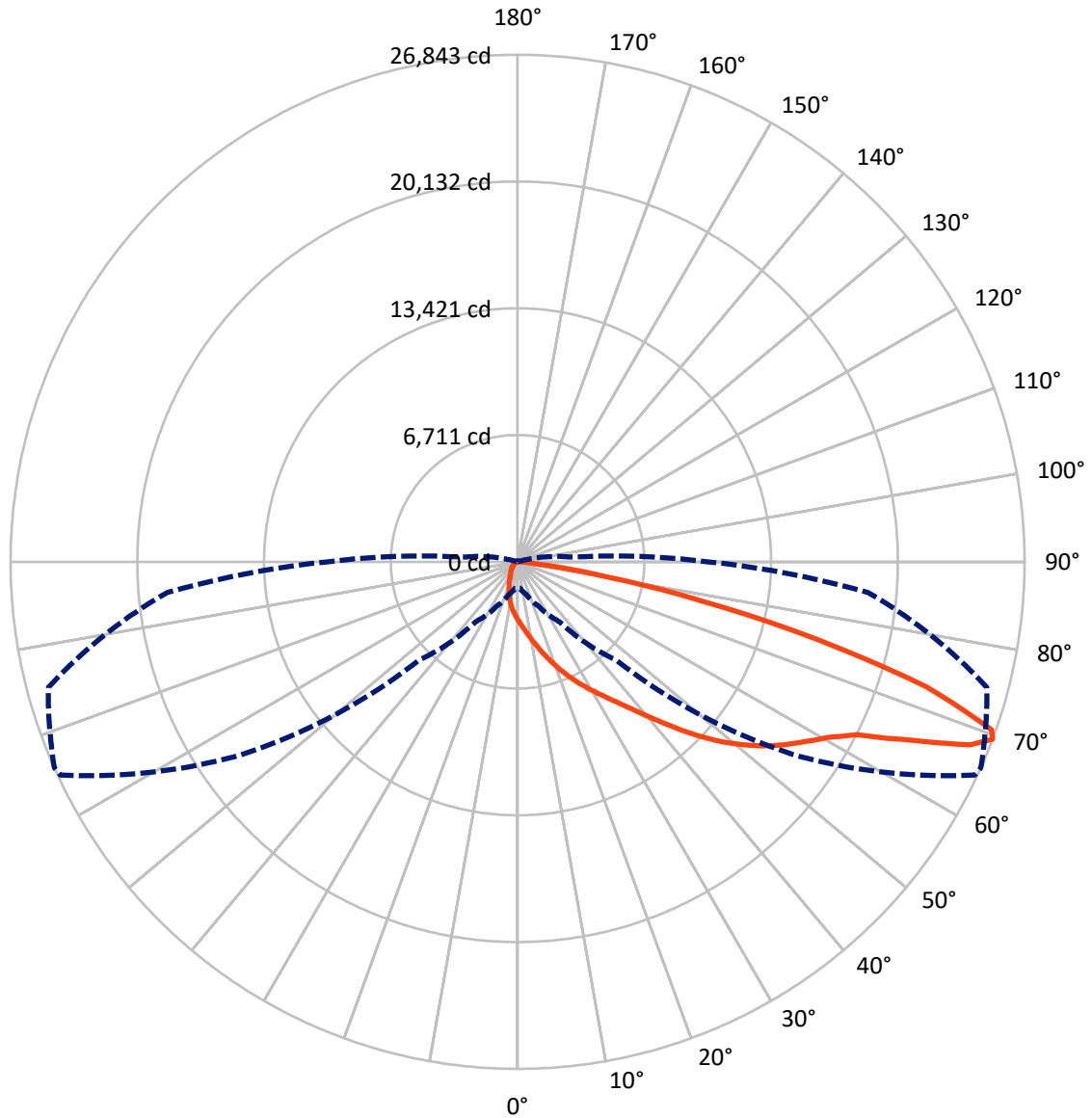
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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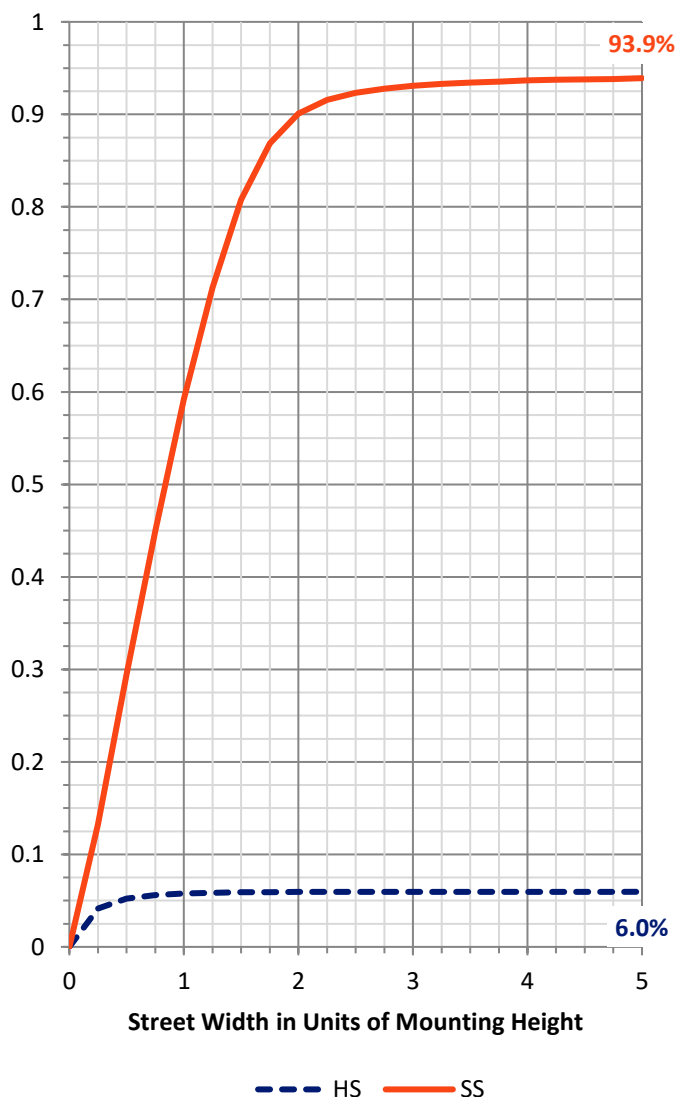
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1619.0	0.0	1619.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	25371.0	0.0	25371.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	26990.0	0.0	26990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.9	1.1
10°-20°	883.6	3.3
20°-30°	1538.8	5.7
30°-40°	2699.7	10.0
40°-50°	4518.9	16.7
50°-60°	6642.4	24.6
60°-70°	6820.1	25.3
70°-80°	3366.9	12.5
80°-90°	222.6	0.8
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°	26990.0	100.0
0°-180°	26990.0	100.0

Coefficient of Utilization

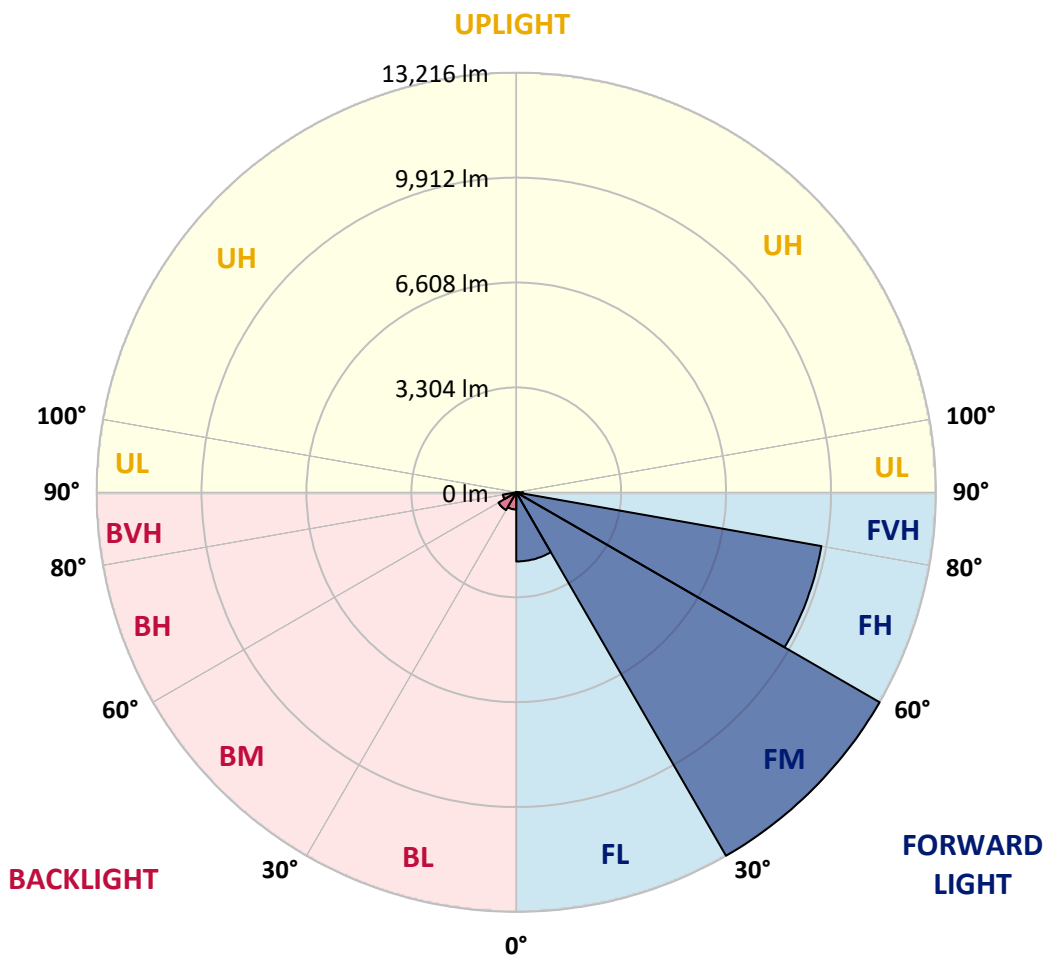


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2177.8	8.1			
FM (30°-60°)	13215.6	49.0			
FH (60°-80°)	9760.3	36.2			G4/12000
FVH (80°-90°)	217.2	0.8			G2/225
BL (0°-30°)	541.5	2.0	B2/1000		
BM (30°-60°)	645.5	2.4	B1/1000		
BH (60°-80°)	426.7	1.6	B1/500		G1/500
BVH (80°-90°)	5.4	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°	66°	75°	85°
0°	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5
2.5°	3615.1	3599.7	3593.3	3565.1	3516.4	3479.2	3407.4	3324.1	3308.7	3227.9	3129.2
5°	4084.3	4071.5	4062.5	4022.8	3972.8	3879.2	3748.4	3593.3	3563.8	3410.0	3212.6
7.5°	4411.2	4434.3	4434.3	4408.6	4345.8	4275.3	4115.1	3903.5	3866.4	3630.5	3324.1
10°	4602.2	4630.4	4652.2	4674.0	4665.0	4636.8	4485.5	4247.1	4202.2	3889.4	3453.6
12.5°	4620.1	4648.3	4709.9	4800.9	4889.4	4953.4	4858.6	4627.8	4576.6	4189.4	3607.4
15°	4520.2	4549.6	4644.5	4821.4	5035.5	5222.7	5253.4	5049.6	4997.0	4547.1	3799.7
17.5°	4345.8	4365.0	4500.9	4745.8	5081.6	5425.2	5611.1	5502.1	5453.4	4956.0	4013.8
20°	4216.3	4230.4	4349.7	4612.5	5053.4	5552.1	5949.5	5982.9	5931.6	5394.4	4245.8
22.5°	4438.1	4463.7	4467.6	4591.9	4976.5	5614.9	6246.9	6455.9	6417.4	5859.8	4474.0
25°	5044.5	5074.0	4976.5	4899.6	5041.9	5643.1	6502.0	6940.5	6909.7	6361.0	4703.5
27.5°	5845.7	5876.5	5750.8	5521.4	5384.2	5749.5	6728.9	7432.7	7431.5	6891.8	4950.9
30°	6632.8	6663.6	6535.4	6305.9	5990.5	6050.8	6925.1	7948.1	7955.8	7439.1	5213.7
32.5°	7458.4	7496.8	7364.8	7069.9	6740.5	6571.3	7200.7	8466.0	8509.6	8073.7	5509.8
35°	8396.8	8401.9	8216.0	7907.1	7527.6	7267.4	7643.0	9046.7	9150.5	8859.5	5885.4
37.5°	9317.2	9354.4	9201.8	8714.7	8366.0	8071.1	8300.6	9772.3	9919.7	9819.7	6376.4
40°	9999.2	10077.4	10055.6	9530.0	9199.3	8989.0	9117.2	10635.0	10822.2	10937.6	6995.6
42.5°	10427.4	10486.3	10586.3	10269.7	9969.7	10004.3	10081.2	11640.1	11870.8	12211.8	7707.1
45°	10918.4	10946.6	11029.9	10890.2	10687.6	11036.3	11104.2	12772.1	13014.3	13582.2	8496.8
47.5°	11518.3	11585.0	11608.0	11479.8	11387.5	11949.0	12090.1	13801.5	14141.2	15050.1	9332.6
50°	12282.3	12300.3	12340.0	12256.7	12164.4	12733.6	12974.6	14882.1	15191.1	16523.0	10156.9
52.5°	13029.7	13093.8	13232.3	13179.7	13142.5	13401.5	13763.0	15856.4	16201.3	17751.1	10979.9
55°	13245.1	13300.2	13778.4	14105.3	14407.8	14224.5	14516.8	16729.4	17102.5	18848.5	11772.1
57.5°	12384.9	12496.4	13324.6	14175.8	15430.8	15503.9	15552.6	17625.5	17960.1	19689.4	12596.4
60°	10210.7	10232.5	11591.4	13051.5	15261.6	16620.5	17065.3	18588.3	18869.0	20472.7	13583.5
62.5°	6494.4	6716.1	8207.0	10268.4	13472.0	16458.9	18894.6	20044.5	20147.1	21412.4	14998.8
65°	3093.3	3236.9	4311.2	6344.4	9758.2	14391.2	20157.4	22679.0	22725.1	23275.1	16889.7
67.5°	1712.7	1781.9	2293.4	3415.1	5704.7	10177.4	19647.1	25799.2	25842.8	25177.5	18548.5
69°	1339.6	1398.6	1801.1	2574.2	3867.6	7314.8	17779.3	26713.2	26842.7	25722.3	18607.5
70°	1137.1	1194.8	1551.2	2174.2	3110.0	5652.1	15825.7	26486.3	26623.5	25671.0	18167.8
72.5°	696.1	729.4	1033.3	1530.6	2084.4	2843.4	9759.5	22399.5	22631.5	23548.1	15614.1
75°	469.2	487.1	646.1	1056.3	1490.9	1464.0	5070.1	15788.5	16291.0	18317.8	11532.4
77.5°	335.9	352.5	433.3	683.3	1044.8	966.6	2296.0	9812.0	9919.7	10986.3	6289.2
80°	191.0	206.4	306.4	406.4	708.9	644.8	912.7	4686.8	4740.6	4711.2	2099.8
82.5°	100.0	112.8	167.9	267.9	455.1	421.8	379.5	1569.1	1576.8	1311.4	460.2
85°	19.2	23.1	83.3	183.3	234.6	183.3	155.1	367.9	375.6	332.0	114.1
87.5°	0.0	1.3	33.3	41.0	46.2	47.4	50.0	71.8	76.9	103.8	30.8
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°	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5	3071.5
2.5°	3085.7	3039.5	2951.0	2848.5	2769.0	2690.8	2629.3	2565.2	2542.1	2530.6	2529.3
5°	3116.4	3019.0	2831.8	2639.5	2481.9	2333.1	2226.7	2125.5	2078.0	2056.2	2047.3
7.5°	3167.7	3011.3	2710.0	2416.5	2189.6	2003.7	1856.3	1746.0	1690.9	1667.8	1658.8
10°	3227.9	3001.0	2567.7	2180.6	1890.9	1698.6	1552.4	1443.5	1383.2	1357.6	1344.8
12.5°	3298.5	2983.1	2403.7	1942.2	1635.8	1443.5	1266.6	1132.0	1062.7	1033.3	1019.1
15°	3385.6	2965.1	2231.9	1717.8	1411.4	1176.8	983.3	892.2	878.1	873.0	874.3
17.5°	3471.5	2936.9	2044.7	1496.0	1175.5	919.2	820.4	815.3	817.9	817.9	817.9
20°	3548.4	2872.8	1840.9	1306.3	951.2	775.6	755.1	746.1	739.7	734.6	728.1
22.5°	3608.7	2787.0	1644.7	1117.9	776.9	710.2	678.2	649.9	626.9	611.5	603.8
25°	3649.7	2672.9	1465.3	937.1	698.7	646.1	588.4	541.0	505.1	483.3	474.3
27.5°	3680.5	2549.8	1305.0	784.6	644.8	571.7	496.1	439.7	402.5	383.3	375.6
30°	3702.3	2410.1	1164.0	689.7	584.6	493.6	412.8	357.7	330.7	320.5	315.4
32.5°	3722.8	2254.9	1030.7	644.8	528.2	421.8	346.1	303.8	287.2	274.3	270.5
35°	3774.1	2111.4	903.8	597.4	470.5	360.2	297.4	266.6	250.0	242.3	239.7
37.5°	3895.8	2005.0	782.0	548.7	412.8	311.5	260.2	238.4	223.1	215.4	212.8
40°	4092.0	1951.1	679.4	496.1	356.4	274.3	235.9	215.4	198.7	187.2	184.6
42.5°	4380.4	1958.8	607.6	443.6	311.5	244.9	212.8	188.4	170.5	160.2	157.7
45°	4730.4	2015.2	557.6	392.3	274.3	221.8	187.2	161.5	144.9	135.9	133.3
47.5°	5109.8	2106.2	516.6	346.1	244.9	200.0	161.5	134.6	120.5	112.8	111.5
50°	5509.8	2194.7	474.3	301.3	219.2	178.2	135.9	111.5	100.0	93.6	91.0
52.5°	5914.9	2297.3	435.9	260.2	197.4	152.6	112.8	91.0	82.0	76.9	74.4
55°	6350.8	2374.2	398.7	228.2	175.6	129.5	93.6	75.6	67.9	61.5	60.3
57.5°	6863.6	2493.4	360.2	197.4	150.0	107.7	76.9	60.3	53.8	47.4	46.2
60°	7555.8	2633.1	319.2	174.3	123.1	88.5	62.8	48.7	41.0	35.9	34.6
62.5°	8468.6	2788.2	267.9	152.6	100.0	71.8	50.0	38.5	29.5	23.1	23.1
65°	9626.2	3040.8	219.2	128.2	82.0	59.0	38.5	28.2	16.7	10.3	10.3
67.5°	10301.7	3084.4	176.9	105.1	66.7	50.0	32.0	19.2	5.1	1.3	0.0
69°	10085.1	2831.8	150.0	89.7	57.7	47.4	29.5	14.1	2.6	0.0	0.0
70°	9677.4	2589.5	132.0	79.5	52.6	44.9	28.2	10.3	2.6	0.0	0.0
72.5°	7996.8	1843.4	100.0	59.0	38.5	39.7	25.6	6.4	2.6	0.0	0.0
75°	5825.2	1120.4	71.8	41.0	24.4	29.5	17.9	2.6	1.3	0.0	0.0
77.5°	3240.8	528.2	44.9	23.1	15.4	17.9	9.0	0.0	0.0	0.0	0.0
80°	1052.5	143.6	20.5	12.8	9.0	10.3	3.8	0.0	0.0	0.0	0.0
82.5°	194.9	41.0	11.5	6.4	2.6	2.6	0.0	0.0	0.0	0.0	0.0
85°	42.3	16.7	6.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.1	5.1	1.3	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)