

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: P321882

Luminaire Tested: **GAN-SA8B-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321882
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-SA8B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA 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: 29671 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

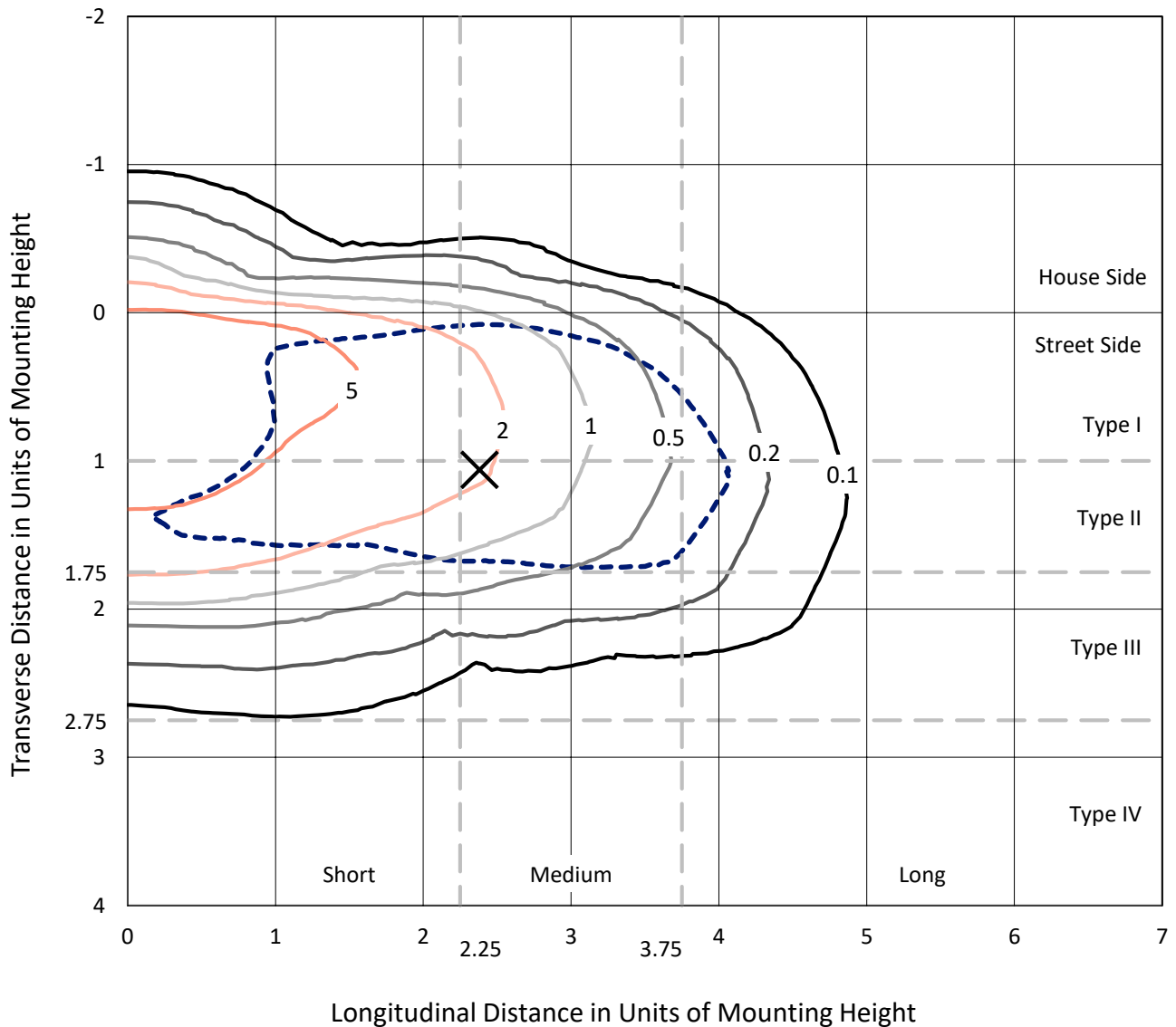
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

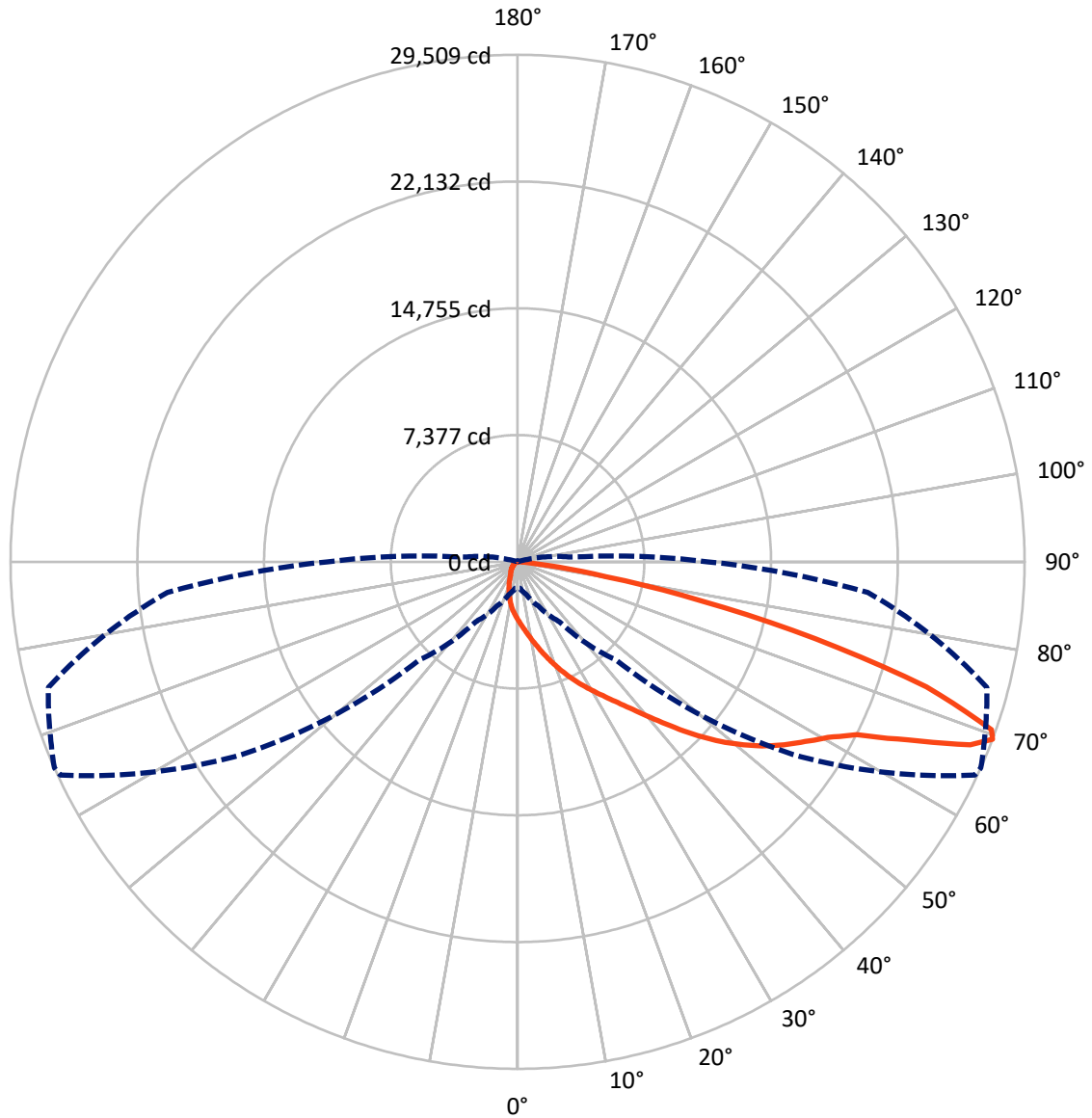
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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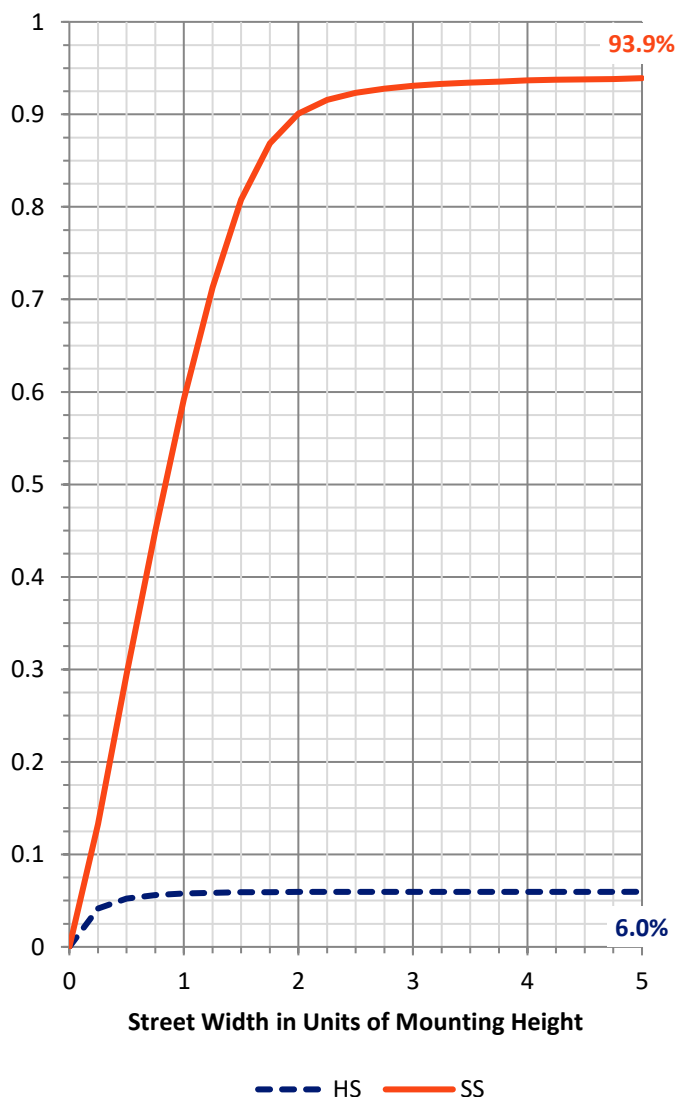
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1779.8	0.0	1779.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	27891.1	0.0	27891.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	29671.0	0.0	29671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	1.1
10°-20°	971.4	3.3
20°-30°	1691.6	5.7
30°-40°	2967.9	10.0
40°-50°	4967.8	16.7
50°-60°	7302.2	24.6
60°-70°	7497.5	25.3
70°-80°	3701.3	12.5
80°-90°	244.7	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°	29671.0	100.0
0°-180°	29671.0	100.0

Coefficient of Utilization

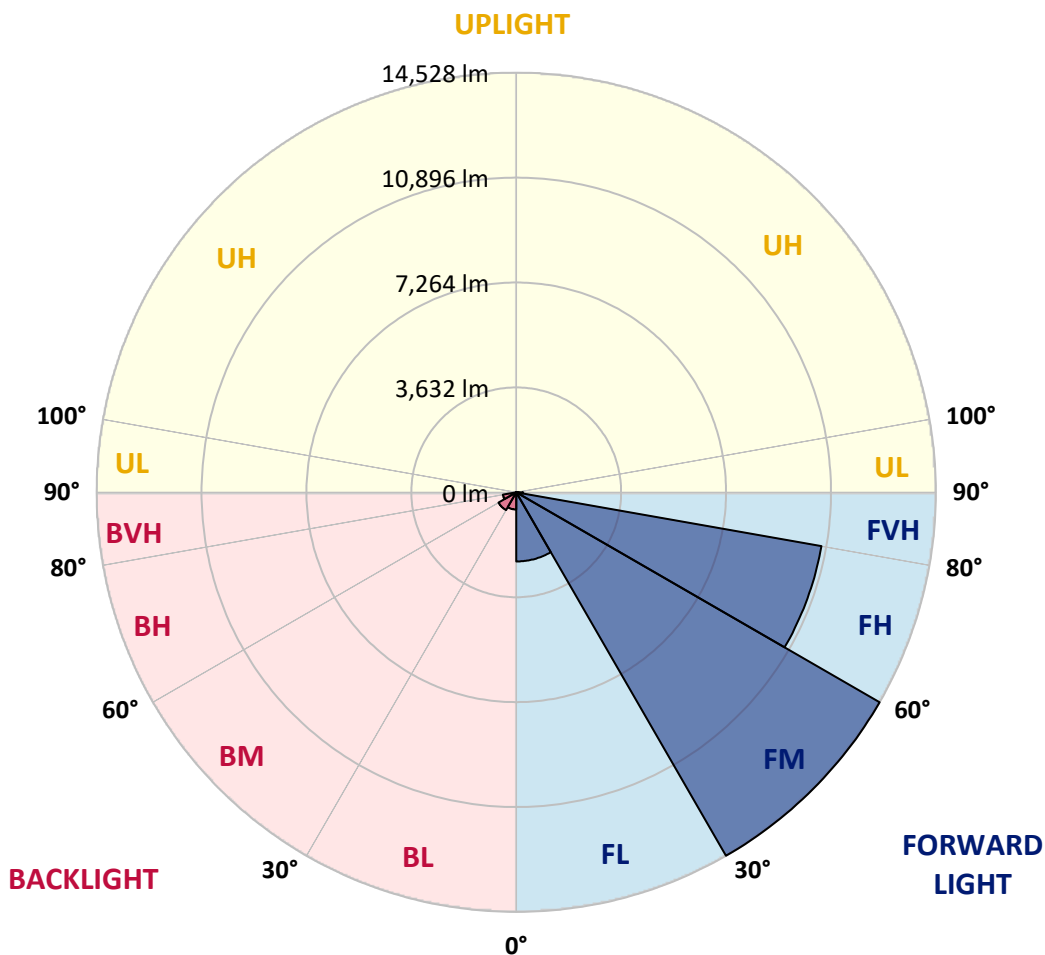


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2394.2	8.1			
FM (30°-60°)	14528.3	49.0			
FH (60°-80°)	10729.8	36.2			G4/12000
FVH (80°-90°)	238.8	0.8			G3/500
BL (0°-30°)	595.3	2.0	B2/1000		
BM (30°-60°)	709.6	2.4	B1/1000		
BH (60°-80°)	469.0	1.6	B1/500		G1/500
BVH (80°-90°)	5.9	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°	3376.7	3376.7	3376.7	3376.7	3376.7	3376.7	3376.7	3376.7	3376.7	3376.7	3376.7
2.5°	3974.2	3957.3	3950.2	3919.2	3865.7	3824.8	3745.9	3654.3	3637.4	3548.6	3440.1
5°	4490.0	4475.9	4466.0	4422.3	4367.4	4264.5	4120.8	3950.2	3917.8	3748.7	3531.7
7.5°	4849.4	4874.7	4874.7	4846.5	4777.5	4700.0	4523.8	4291.3	4250.4	3991.1	3654.3
10°	5059.3	5090.3	5114.3	5138.3	5128.4	5097.4	4931.1	4669.0	4619.6	4275.8	3796.6
12.5°	5079.1	5110.1	5177.7	5277.8	5375.0	5445.5	5341.2	5087.5	5031.2	4605.6	3965.7
15°	4969.2	5001.6	5105.9	5300.3	5535.7	5741.4	5775.3	5551.2	5493.4	4998.7	4177.1
17.5°	4777.5	4798.6	4948.0	5217.2	5586.4	5964.1	6168.5	6048.7	5995.1	5448.3	4412.5
20°	4635.1	4650.7	4781.7	5070.6	5555.4	6103.6	6540.5	6577.1	6520.8	5930.3	4667.6
22.5°	4879.0	4907.1	4911.4	5048.1	5470.9	6172.7	6867.5	7097.2	7054.9	6441.9	4918.4
25°	5545.5	5578.0	5470.9	5386.3	5542.7	6203.7	7147.9	7629.9	7596.1	6992.9	5170.7
27.5°	6426.4	6460.2	6322.1	6069.8	5919.0	6320.7	7397.4	8171.1	8169.6	7576.3	5442.7
30°	7291.7	7325.5	7184.6	6932.3	6585.6	6651.8	7613.0	8737.6	8746.0	8178.1	5731.6
32.5°	8199.2	8241.5	8096.4	7772.2	7410.0	7224.0	7916.0	9306.9	9354.9	8875.7	6057.1
35°	9230.8	9236.5	9032.1	8692.5	8275.3	7989.3	8402.2	9945.3	10059.5	9739.6	6470.0
37.5°	10242.7	10283.6	10115.9	9580.3	9197.0	8872.9	9125.1	10743.0	10905.1	10795.1	7009.8
40°	10992.4	11078.4	11054.5	10476.7	10113.1	9881.9	10022.9	11691.5	11897.2	12024.0	7690.5
42.5°	11463.2	11528.0	11637.9	11289.8	10960.0	10998.1	11082.6	12796.3	13050.0	13424.9	8472.6
45°	12002.9	12033.9	12125.5	11971.9	11749.2	12132.6	12207.3	14040.7	14307.1	14931.4	9340.8
47.5°	12662.5	12735.7	12761.1	12620.2	12518.7	13136.0	13291.0	15172.4	15545.9	16545.0	10259.6
50°	13502.4	13522.1	13565.8	13474.2	13372.7	13998.5	14263.4	16360.4	16700.1	18164.3	11165.8
52.5°	14324.0	14394.5	14546.7	14488.9	14448.0	14732.7	15130.1	17431.5	17810.6	19514.4	12070.6
55°	14560.8	14621.4	15147.0	15506.4	15839.0	15637.5	15958.8	18391.2	18801.3	20720.8	12941.5
57.5°	13615.1	13737.7	14648.1	15583.9	16963.6	17043.9	17097.5	19376.3	19744.1	21645.3	13847.7
60°	11225.0	11248.9	12742.8	14348.0	16777.6	18271.4	18760.4	20434.7	20743.3	22506.3	14932.8
62.5°	7139.5	7383.3	9022.3	11288.4	14810.2	18093.9	20771.5	22035.6	22148.4	23539.3	16488.7
65°	3400.6	3558.5	4739.4	6974.6	10727.5	15820.7	22159.7	24931.7	24982.5	25587.0	18567.4
67.5°	1882.8	1958.9	2521.2	3754.3	6271.3	11188.3	21598.8	28361.9	28409.8	27678.4	20391.0
69°	1472.7	1537.5	1980.1	2829.9	4251.8	8041.4	19545.4	29366.8	29509.1	28277.4	20455.8
70°	1250.0	1313.5	1705.2	2390.2	3418.9	6213.6	17397.7	29117.3	29268.1	28221.0	19972.4
72.5°	765.2	801.9	1135.9	1682.7	2291.5	3125.8	10728.9	24624.5	24879.6	25887.2	17165.1
75°	515.8	535.5	710.3	1161.3	1639.0	1609.4	5573.7	17356.8	17909.2	20137.3	12678.0
77.5°	369.2	387.6	476.3	751.2	1148.6	1062.6	2524.0	10786.7	10905.1	12077.6	6914.0
80°	210.0	226.9	336.8	446.7	779.3	708.9	1003.4	5152.4	5211.5	5179.1	2308.4
82.5°	109.9	124.0	184.6	294.5	500.3	463.7	417.1	1725.0	1733.4	1441.7	505.9
85°	21.1	25.4	91.6	201.5	257.9	201.5	170.5	404.5	412.9	365.0	125.4
87.5°	0.0	1.4	36.6	45.1	50.7	52.1	55.0	78.9	84.6	114.2	33.8
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°	3376.7	3376.7	3376.7	3376.7	3376.7	3376.7	3376.7	3376.7	3376.7	3376.7	3376.7
2.5°	3392.2	3341.4	3244.2	3131.4	3044.1	2958.1	2890.5	2820.0	2794.6	2781.9	2780.5
5°	3426.0	3318.9	3113.1	2901.7	2728.4	2564.9	2447.9	2336.6	2284.5	2260.5	2250.6
7.5°	3482.4	3310.4	2979.2	2656.5	2407.1	2202.7	2040.6	1919.5	1858.9	1833.5	1823.6
10°	3548.6	3299.1	2822.8	2397.2	2078.7	1867.3	1706.6	1586.9	1520.6	1492.4	1478.3
12.5°	3626.1	3279.4	2642.4	2135.1	1798.3	1586.9	1392.4	1244.4	1168.3	1135.9	1120.4
15°	3721.9	3259.7	2453.6	1888.4	1551.6	1293.7	1080.9	980.9	965.4	959.7	961.1
17.5°	3816.4	3228.7	2247.8	1644.6	1292.3	1010.5	901.9	896.3	899.1	899.1	899.1
20°	3900.9	3158.2	2023.7	1436.1	1045.7	852.6	830.1	820.2	813.2	807.5	800.5
22.5°	3967.1	3063.8	1808.1	1228.9	854.0	780.7	745.5	714.5	689.1	672.2	663.8
25°	4012.2	2938.4	1610.8	1030.2	768.1	710.3	646.9	594.7	555.3	531.3	521.4
27.5°	4046.1	2803.1	1434.7	862.5	708.9	628.5	545.4	483.4	442.5	421.4	412.9
30°	4070.0	2649.5	1279.6	758.2	642.6	542.6	453.8	393.2	363.6	352.3	346.7
32.5°	4092.6	2478.9	1133.1	708.9	580.6	463.7	380.5	334.0	315.7	301.6	297.4
35°	4148.9	2321.1	993.5	656.7	517.2	396.0	327.0	293.1	274.8	266.4	263.5
37.5°	4282.8	2204.1	859.7	603.2	453.8	342.5	286.1	262.1	245.2	236.8	233.9
40°	4498.4	2144.9	746.9	545.4	391.8	301.6	259.3	236.8	218.4	205.8	202.9
42.5°	4815.5	2153.4	668.0	487.6	342.5	269.2	233.9	207.2	187.4	176.2	173.3
45°	5200.3	2215.4	613.0	431.2	301.6	243.8	205.8	177.6	159.2	149.4	146.6
47.5°	5617.4	2315.5	567.9	380.5	269.2	219.8	177.6	148.0	132.5	124.0	122.6
50°	6057.1	2412.7	521.4	331.2	241.0	195.9	149.4	122.6	109.9	102.9	100.1
52.5°	6502.5	2525.4	479.2	286.1	217.0	167.7	124.0	100.1	90.2	84.6	81.7
55°	6981.6	2610.0	438.3	250.9	193.1	142.3	102.9	83.1	74.7	67.6	66.2
57.5°	7545.3	2741.1	396.0	217.0	164.9	118.4	84.6	66.2	59.2	52.1	50.7
60°	8306.3	2894.7	350.9	191.7	135.3	97.2	69.1	53.6	45.1	39.5	38.1
62.5°	9309.8	3065.2	294.5	167.7	109.9	78.9	55.0	42.3	32.4	25.4	25.4
65°	10582.3	3342.8	241.0	140.9	90.2	64.8	42.3	31.0	18.3	11.3	11.3
67.5°	11325.0	3390.7	194.5	115.6	73.3	55.0	35.2	21.1	5.6	1.4	0.0
69°	11086.9	3113.1	164.9	98.7	63.4	52.1	32.4	15.5	2.8	0.0	0.0
70°	10638.7	2846.8	145.2	87.4	57.8	49.3	31.0	11.3	2.8	0.0	0.0
72.5°	8791.1	2026.6	109.9	64.8	42.3	43.7	28.2	7.0	2.8	0.0	0.0
75°	6403.8	1231.7	78.9	45.1	26.8	32.4	19.7	2.8	1.4	0.0	0.0
77.5°	3562.7	580.6	49.3	25.4	16.9	19.7	9.9	0.0	0.0	0.0	0.0
80°	1157.0	157.8	22.5	14.1	9.9	11.3	4.2	0.0	0.0	0.0	0.0
82.5°	214.2	45.1	12.7	7.0	2.8	2.8	0.0	0.0	0.0	0.0	0.0
85°	46.5	18.3	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	5.6	1.4	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)