

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: P323874

Luminaire Tested: **GAN-SA0A-750-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-750-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37436 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

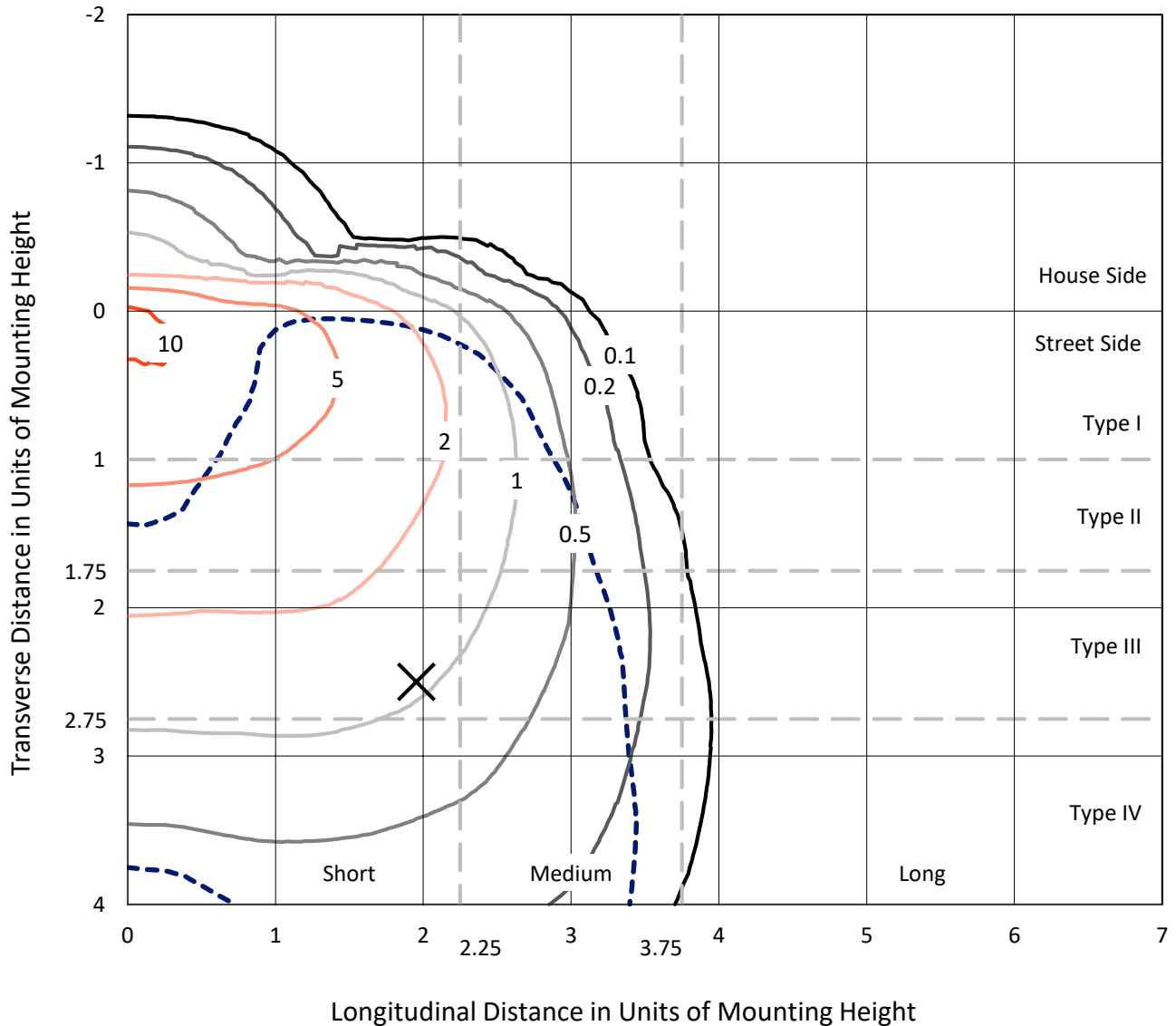
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

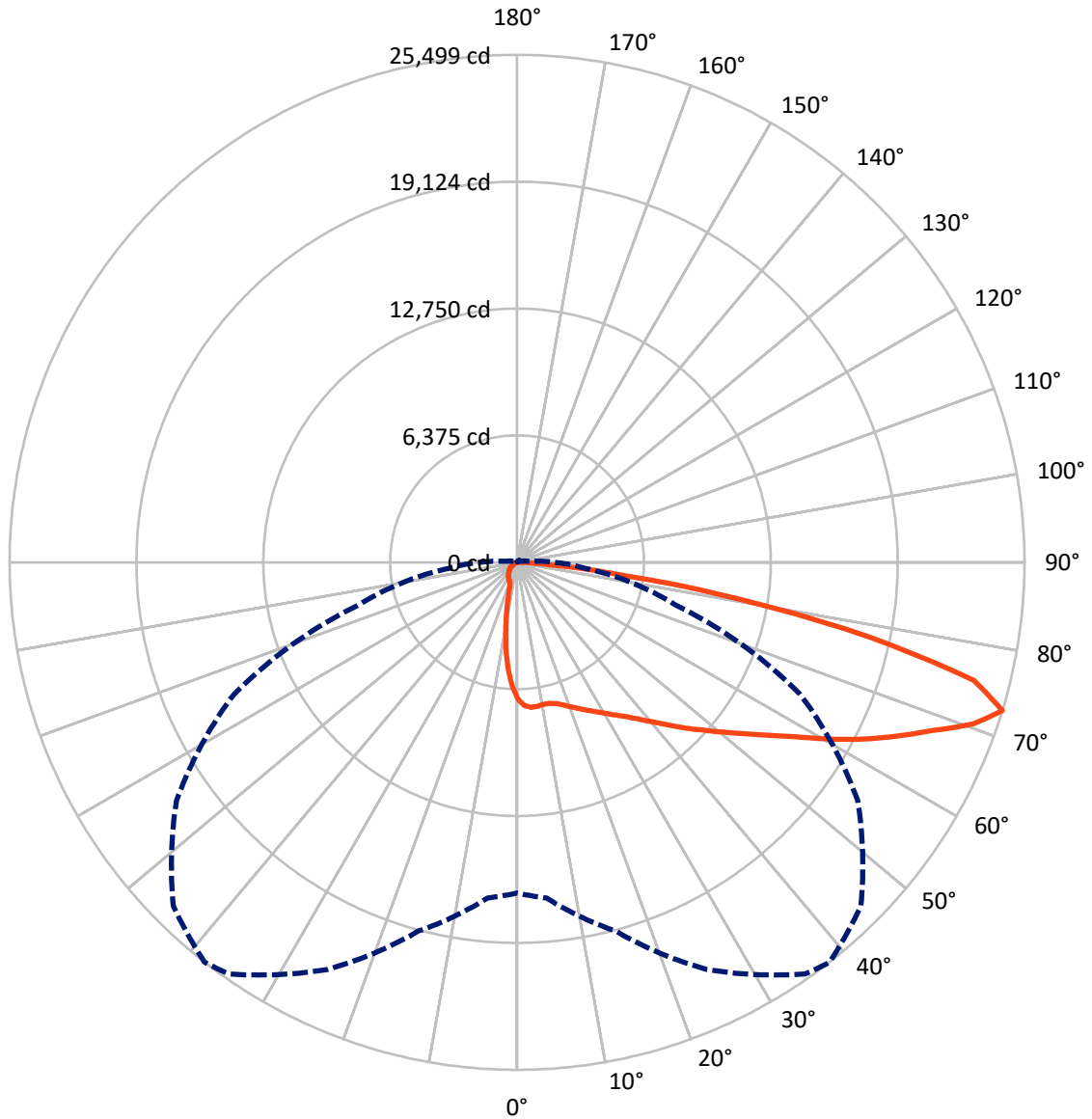
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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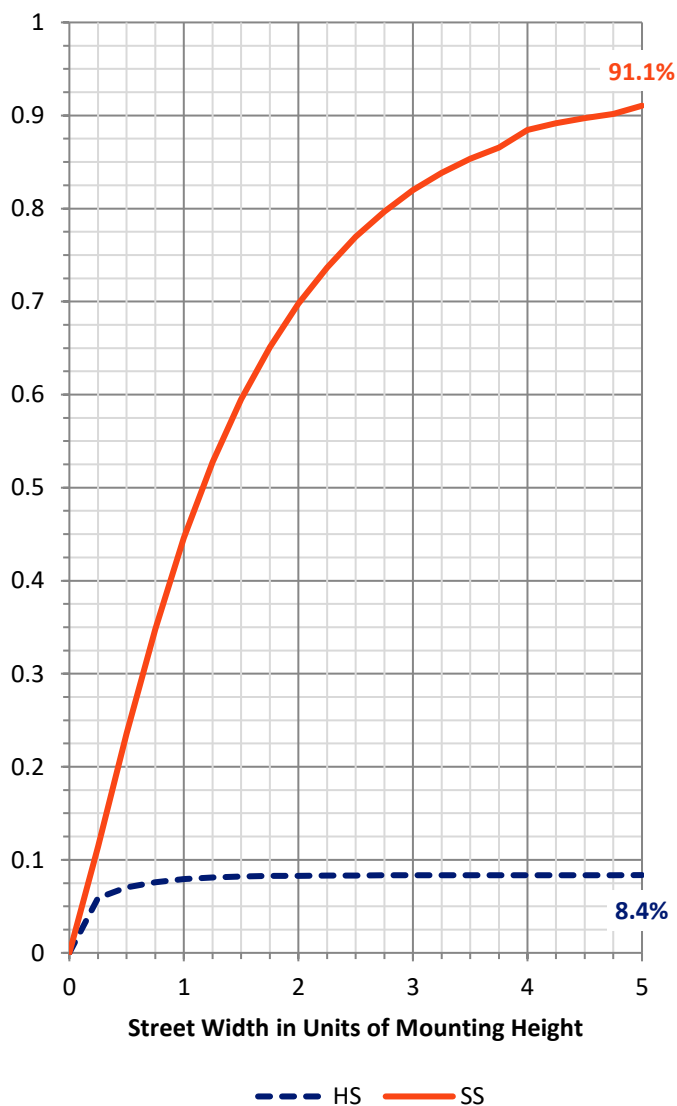
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3150.4	0.0	3150.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	34285.6	0.0	34285.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	37436.0	0.0	37436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.7	1.6
10°-20°	1434.6	3.8
20°-30°	2281.6	6.1
30°-40°	3430.2	9.2
40°-50°	5233.0	14.0
50°-60°	7396.0	19.8
60°-70°	9277.1	24.8
70°-80°	6936.7	18.5
80°-90°	860.1	2.3
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°	37436.0	100.0
0°-180°	37436.0	100.0

Coefficient of Utilization



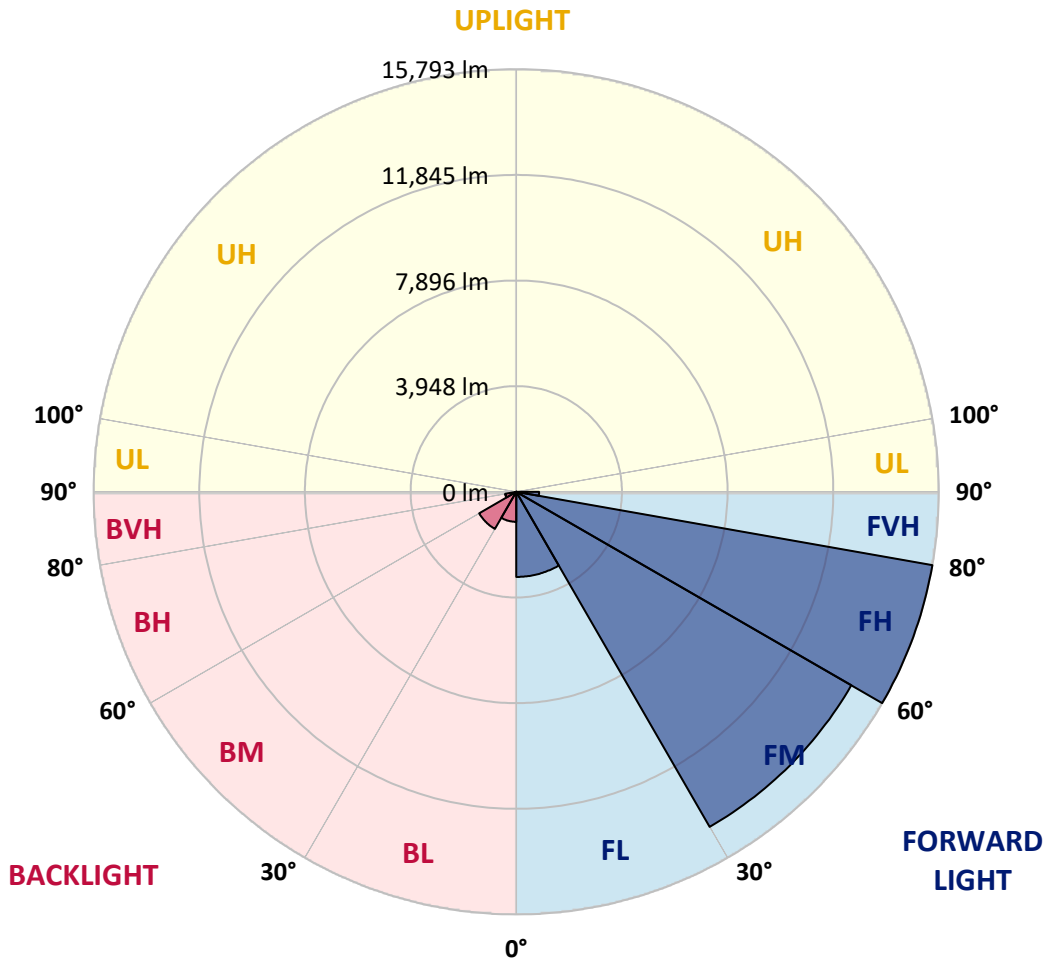
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3181.2	8.5			
FM	(30°-60°)	14459.4	38.6			
FH	(60°-80°)	15792.9	42.2			G5
FVH	(80°-90°)	852.1	2.3			G5
BL	(0°-30°)	1121.7	3.0	B3/2500		
BM	(30°-60°)	1599.8	4.3	B2/2500		
BH	(60°-80°)	420.8	1.1	B1/500		G1/500
BVH	(80°-90°)	8.0	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6884.4	6884.4	6884.4	6884.4	6884.4	6884.4	6884.4	6884.4	6884.4	6884.4	6884.4
2.5°	7307.2	7308.8	7291.7	7263.7	7228.0	7209.3	7178.2	7128.5	7075.6	6980.8	6878.1
5°	7456.5	7456.5	7434.7	7397.4	7339.9	7322.8	7263.7	7184.4	7075.6	6921.7	6749.1
7.5°	7441.0	7444.1	7414.5	7375.7	7318.1	7302.6	7231.1	7142.4	7007.2	6820.6	6599.8
10°	7360.1	7367.9	7344.6	7325.9	7273.0	7255.9	7189.1	7100.5	6965.2	6766.2	6512.8
12.5°	7277.7	7285.5	7293.3	7310.4	7277.7	7271.5	7218.6	7144.0	7015.0	6808.2	6522.1
15°	7224.8	7240.4	7296.4	7363.2	7371.0	7364.8	7330.6	7260.6	7130.0	6915.5	6589.0
17.5°	7224.8	7249.7	7366.3	7493.8	7538.9	7543.6	7514.0	7416.1	7260.6	7030.5	6651.1
20°	7285.5	7319.7	7501.6	7681.9	7756.6	7756.6	7699.0	7562.2	7380.3	7134.7	6693.1
22.5°	7441.0	7486.0	7714.6	7922.9	8002.2	7985.1	7907.4	7708.4	7504.7	7252.8	6746.0
25°	7747.2	7781.4	8019.3	8229.2	8277.4	8238.5	8140.6	7885.6	7663.3	7413.0	6842.4
27.5°	8142.1	8146.8	8392.4	8569.7	8540.1	8513.7	8390.9	8107.9	7891.8	7641.5	7008.7
30°	8575.9	8575.9	8792.0	8927.3	8837.1	8815.3	8692.5	8376.9	8184.1	7952.5	7245.1
32.5°	8995.7	9014.3	9190.0	9275.5	9174.5	9152.7	9033.0	8717.4	8572.8	8426.7	7613.5
35°	9401.5	9415.5	9581.8	9628.5	9532.1	9538.3	9452.8	9185.4	9130.9	9112.3	8168.6
37.5°	9794.8	9797.9	9967.4	9996.9	9948.7	10001.6	10009.4	9773.1	9874.1	10024.9	8950.6
40°	10154.0	10157.1	10325.0	10401.2	10483.6	10552.0	10612.6	10486.7	10820.9	11170.8	9881.9
42.5°	10441.6	10474.2	10687.2	10831.8	11049.5	11180.1	11344.9	11338.7	11948.1	12473.6	11007.5
45°	10695.0	10751.0	11047.9	11301.4	11674.5	11882.8	12140.9	12343.0	13216.8	13924.2	12147.1
47.5°	11029.3	11082.1	11421.1	11836.2	12333.7	12607.3	13034.9	13471.8	14611.4	15348.3	13260.3
50°	11500.4	11477.0	11811.3	12406.8	13045.8	13404.9	14014.4	14668.9	15995.1	16589.0	13914.9
52.5°	12002.5	11993.2	12240.4	13027.1	13885.3	14305.1	15110.4	15906.5	17318.2	17444.1	14214.9
55°	12624.4	12557.6	12765.9	13734.5	14881.9	15332.8	16281.2	17131.6	18372.3	17926.1	14365.7
57.5°	13275.9	13165.5	13364.5	14522.8	16006.0	16539.2	17577.8	18325.6	19073.5	18255.7	14364.2
60°	13949.1	13818.5	14054.8	15508.5	17402.1	18019.4	18983.3	19132.5	19728.0	18422.0	14258.5
62.5°	14511.9	14434.1	14785.5	16562.6	18961.5	19567.9	20045.2	19866.4	20279.9	18551.1	14011.3
65°	15107.3	15112.0	15679.5	17792.4	20618.9	21027.8	21068.2	20817.9	20741.7	18524.6	13174.8
67.5°	15912.7	15987.3	16934.2	19462.1	22231.1	22546.7	22543.6	21848.7	21079.1	17473.6	11320.0
70°	16764.7	16940.4	18380.1	21372.9	23991.1	24311.4	24146.6	22504.8	19847.7	14129.4	8011.5
72.5°	16621.6	16926.4	19183.8	22577.8	25255.1	25499.2	24428.0	20892.5	15687.3	8212.1	3411.1
75°	12823.4	13176.4	17590.2	21383.8	23928.9	23709.7	20988.9	16257.8	8572.8	2291.7	768.0
77.5°	6774.0	6962.1	11620.1	16290.5	18658.3	18199.7	14785.5	9019.0	2613.5	567.5	345.2
80°	3547.9	3591.4	5063.8	9242.9	11515.9	11519.0	8762.5	3961.5	1077.4	290.7	231.7
82.5°	1899.9	1937.2	2675.7	4270.9	6033.9	5469.6	3355.1	2179.7	626.6	164.8	222.3
85°	457.1	464.9	1517.4	1951.2	2372.5	1694.7	996.6	1829.9	169.5	96.4	180.3
87.5°	175.7	178.8	562.8	844.2	604.8	391.8	466.4	682.5	21.8	37.3	28.0
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°	6884.4	6884.4	6884.4	6884.4	6884.4	6884.4	6884.4	6884.4	6884.4	6884.4	6884.4
2.5°	6815.9	6775.5	6676.0	6550.1	6438.1	6357.3	6236.0	6156.7	6103.9	6102.3	6082.1
5°	6643.4	6561.0	6346.4	6091.4	5859.8	5651.5	5405.8	5211.5	5066.9	5043.6	4993.8
7.5°	6458.4	6323.1	5993.5	5595.5	5206.8	4811.9	4353.3	4068.7	3824.6	3708.0	3695.6
10°	6344.9	6155.2	5687.2	5112.0	4502.5	3860.4	3260.3	2845.2	2545.1	2459.6	2395.8
12.5°	6321.5	6071.2	5450.9	4658.0	3787.3	2938.4	2274.6	1833.0	1593.6	1517.4	1497.2
15°	6344.9	6032.4	5251.9	4208.7	3062.8	2084.9	1526.7	1270.2	1180.0	1158.3	1156.7
17.5°	6358.9	5985.7	5026.5	3709.6	2360.1	1489.4	1169.2	1094.5	1080.5	1079.0	1082.1
20°	6357.3	5914.2	4757.5	3153.0	1755.3	1170.7	1057.2	1041.7	1038.6	1040.1	1038.6
22.5°	6346.4	5830.2	4462.1	2579.3	1326.2	1046.3	1009.0	999.7	998.1	998.1	998.1
25°	6366.6	5763.4	4137.1	2030.5	1093.0	988.8	965.5	957.7	956.2	956.2	953.1
27.5°	6439.7	5726.1	3781.1	1562.5	987.3	937.5	918.8	917.3	912.6	911.1	914.2
30°	6557.9	5726.1	3390.9	1215.8	923.5	884.6	870.7	867.5	866.0	864.4	866.0
32.5°	6766.2	5769.6	2964.9	1010.6	862.9	825.6	816.2	820.9	816.2	816.2	816.2
35°	7142.4	5900.2	2518.7	881.5	799.1	768.0	758.7	764.9	761.8	761.8	760.3
37.5°	7691.3	6142.7	2069.3	803.8	743.2	710.5	698.1	707.4	704.3	704.3	702.7
40°	8359.8	6495.7	1641.8	744.7	688.7	654.5	643.7	648.3	640.5	640.5	643.7
42.5°	9185.4	6943.4	1268.7	687.2	634.3	601.7	595.5	590.8	576.8	569.0	570.6
45°	10102.7	7409.9	988.8	631.2	583.0	556.6	547.3	534.8	511.5	496.0	497.5
47.5°	10922.0	7769.0	803.8	576.8	536.4	516.2	502.2	478.9	444.7	426.0	427.6
50°	11352.7	7823.4	684.1	522.4	492.9	472.6	452.4	416.7	376.2	356.0	354.5
52.5°	11463.0	7568.4	595.5	472.6	449.3	426.0	399.6	351.4	306.3	284.5	281.4
55°	11503.5	7179.8	516.2	426.0	402.7	376.2	342.0	287.6	245.6	223.9	222.3
57.5°	11369.8	6599.8	454.0	384.0	356.0	323.4	281.4	230.1	189.7	172.6	172.6
60°	11072.8	5814.7	405.8	338.9	307.8	270.5	227.0	178.8	141.5	127.5	127.5
62.5°	10480.5	4797.9	360.7	292.3	262.7	223.9	183.5	135.3	99.5	91.7	93.3
65°	9362.6	3639.6	315.6	250.3	223.9	185.0	143.0	96.4	66.9	66.9	70.0
67.5°	7635.3	2528.0	269.0	213.0	192.8	150.8	108.8	66.9	46.6	52.9	59.1
70°	5054.4	1417.9	230.1	175.7	164.8	119.7	80.8	45.1	37.3	49.8	60.6
72.5°	1907.7	551.9	192.8	141.5	143.0	91.7	57.5	34.2	34.2	54.4	71.5
75°	531.7	270.5	138.4	104.2	111.9	66.9	42.0	29.5	32.6	62.2	84.0
77.5°	312.5	199.0	90.2	60.6	76.2	46.6	28.0	23.3	28.0	52.9	80.8
80°	251.9	105.7	52.9	31.1	42.0	26.4	18.7	14.0	7.8	20.2	42.0
82.5°	251.9	63.7	24.9	21.8	21.8	14.0	9.3	6.2	1.6	0.0	10.9
85°	169.5	26.4	15.5	14.0	10.9	4.7	3.1	1.6	0.0	0.0	0.0
87.5°	28.0	10.9	6.2	3.1	1.6	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)