

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: P455761

Luminaire Tested: **GLAN-SA7A-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21825 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

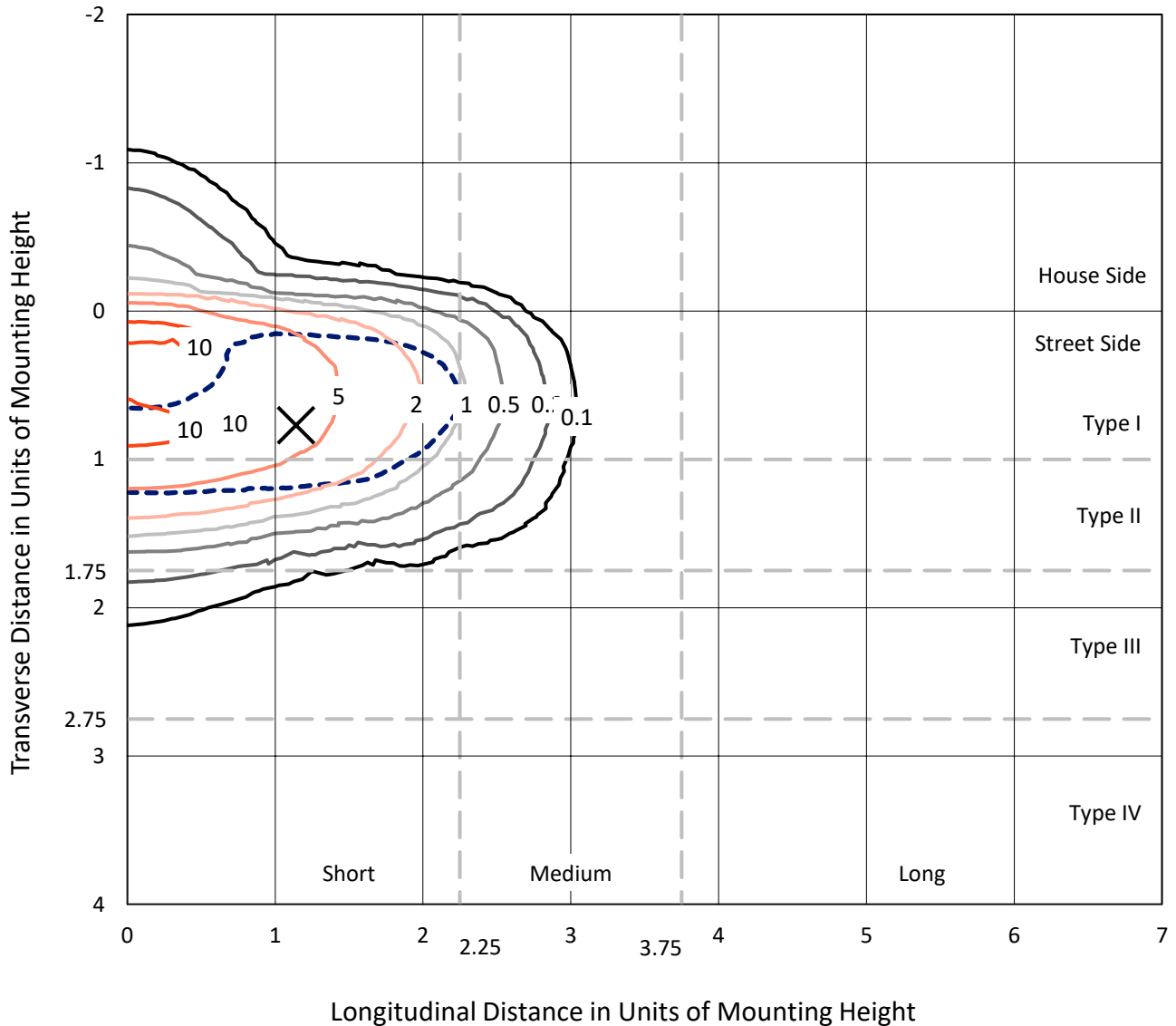
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

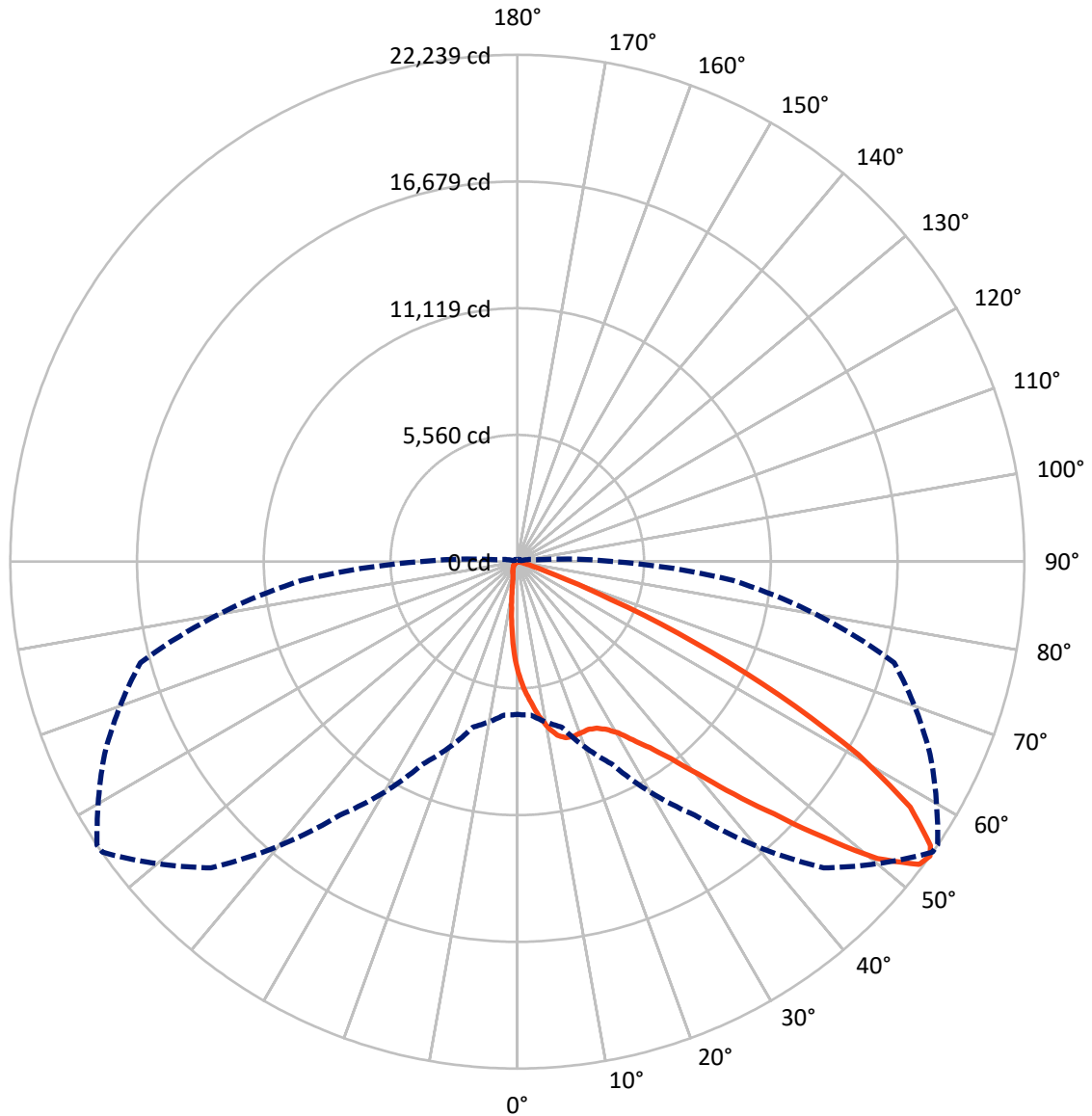
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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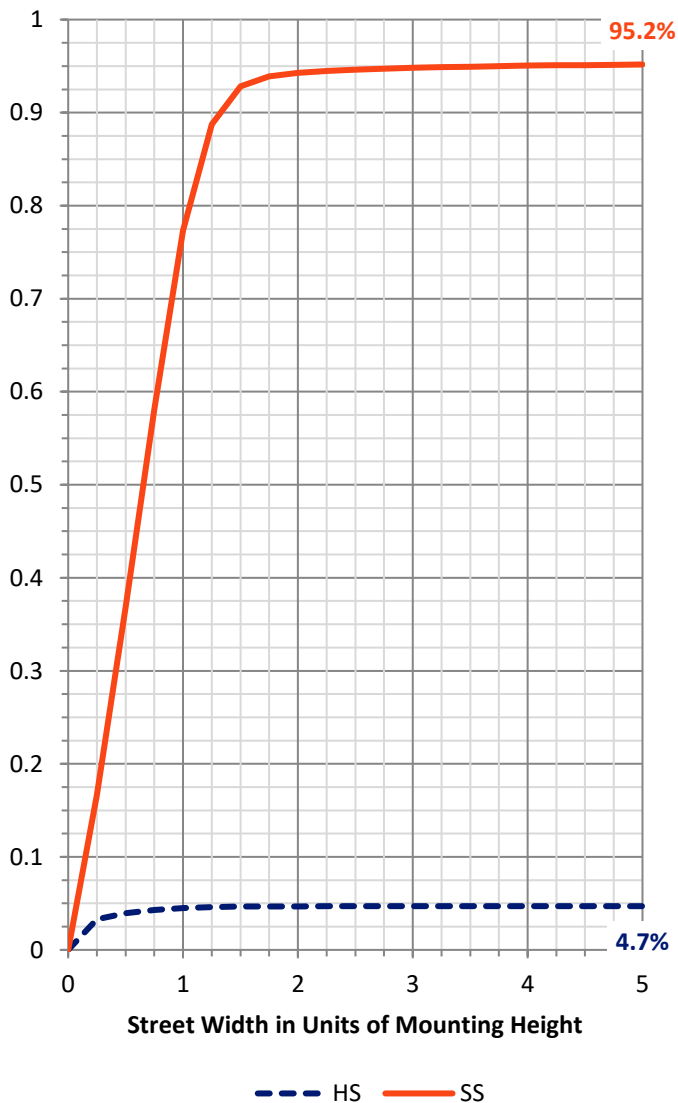
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1032.1	0.0	1032.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	20793.0	0.0	20793.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	21825.0	0.0	21825.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.5	2.0
10°-20°	1158.3	5.3
20°-30°	2006.1	9.2
30°-40°	3462.8	15.9
40°-50°	5893.9	27.0
50°-60°	5832.8	26.7
60°-70°	2662.2	12.2
70°-80°	341.9	1.6
80°-90°	38.5	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°	21825.0	100.0
0°-180°	21825.0	100.0



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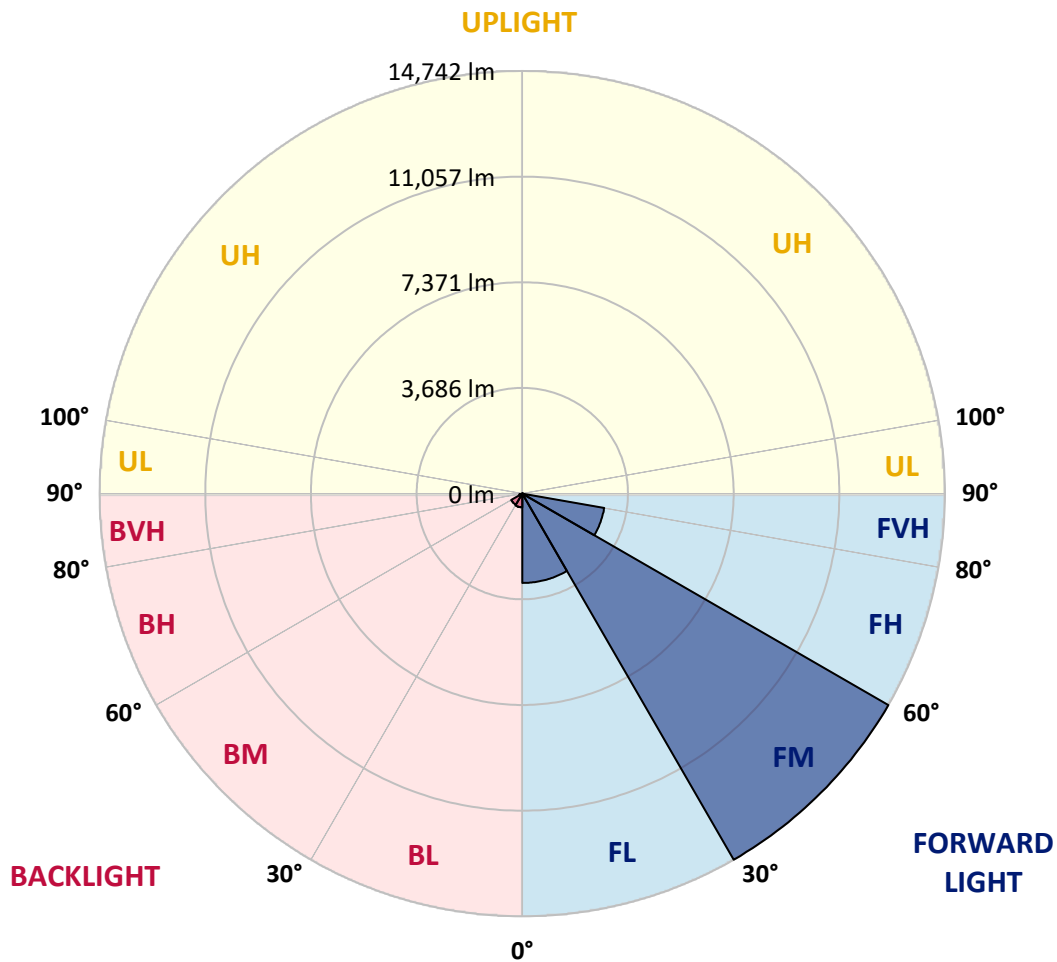
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3115.6	14.3			
FM (30°-60°)	14742.2	67.5			
FH (60°-80°)	2900.7	13.3			G2/5000
FVH (80°-90°)	34.4	0.2			G1/100
BL (0°-30°)	477.3	2.2	B1/500		
BM (30°-60°)	447.3	2.0	B1/1000		
BH (60°-80°)	103.3	0.5	B0/110		G0/110
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4848.9	4848.9	4848.9	4848.9	4848.9	4848.9	4848.9	4848.9	4848.9	4848.9	4848.9
2.5°	6162.3	6119.6	6060.7	6015.1	5907.6	5753.0	5589.5	5589.5	5432.0	5212.6	4988.8
5°	7107.7	7079.7	7022.3	6904.5	6783.7	6567.3	6238.9	6181.5	5900.2	5502.7	5084.5
7.5°	7492.0	7505.2	7508.2	7477.3	7419.8	7206.3	6880.9	6841.2	6392.1	5859.0	5209.6
10°	7123.9	7188.7	7252.0	7380.1	7561.2	7612.7	7428.7	7387.4	6945.7	6219.8	5345.1
12.5°	6576.1	6611.5	6646.8	6848.5	7212.2	7628.9	7821.8	7820.4	7446.3	6579.1	5517.4
15°	6321.4	6352.3	6355.2	6445.1	6760.2	7366.8	7989.7	8011.8	7935.2	7022.3	5702.9
17.5°	6374.4	6399.4	6378.8	6400.9	6565.8	7078.2	7970.6	8044.2	8331.3	7447.8	5870.8
20°	6720.4	6769.0	6689.5	6627.6	6677.7	7001.7	7905.8	8008.8	8611.1	7863.1	6023.9
22.5°	7341.8	7368.3	7268.2	7098.8	7010.5	7162.2	7888.1	7989.7	8849.6	8203.2	6112.3
25°	8032.4	8023.6	7913.1	7723.2	7537.6	7486.1	8004.4	8095.7	9046.9	8509.5	6138.8
27.5°	8723.0	8749.5	8564.0	8328.4	8106.0	7972.0	8265.0	8332.8	9269.3	8858.5	6171.2
30°	9525.5	9482.8	9300.2	9030.7	8776.0	8589.0	8684.7	8703.8	9575.6	9320.8	6256.6
32.5°	10569.5	10451.7	10247.0	9775.8	9593.2	9276.6	9300.2	9323.8	9948.1	9778.8	6359.7
35°	11986.0	11980.1	11579.6	10945.0	10500.3	10107.1	10004.1	10023.2	10512.1	10459.0	6587.9
37.5°	13691.2	13714.7	13258.2	12619.2	11800.5	11176.1	10964.1	10967.1	11369.0	11398.5	6935.4
40°	15079.7	15141.5	14869.1	14437.7	13629.3	12653.0	12296.7	12264.3	12573.5	12536.7	7431.6
42.5°	15677.5	15735.0	15836.6	15986.8	15542.1	14736.6	13895.8	13940.0	14034.2	13776.6	7988.2
45°	15384.5	15475.8	15874.8	16802.5	17220.7	16949.8	15947.0	15792.4	15393.3	15123.9	8547.8
47.5°	14163.8	14386.2	15053.2	16597.8	18061.5	18977.4	18261.7	18057.1	16753.9	16107.5	8904.1
50°	12156.8	12170.1	13099.2	15073.8	17625.6	20257.0	20625.1	20471.9	18021.7	16659.7	9083.7
52.5°	8812.8	9102.9	9954.0	12240.8	15737.9	20062.6	22131.4	22068.1	19329.3	16942.4	9342.9
54°	6699.8	6755.8	7512.6	9781.7	13568.9	18995.0	22224.2	22238.9	19978.7	17113.2	9496.0
55°	5492.4	5358.4	6153.5	8332.8	12089.1	18051.2	21920.9	21991.5	20270.2	17201.6	9609.4
57.5°	2603.4	2604.8	3213.0	4395.4	7571.5	14016.6	20067.0	20317.3	20302.6	17353.2	9958.4
60°	1317.9	1326.7	1460.7	2029.1	3740.1	9317.9	16591.9	17188.3	18740.3	17375.3	10073.3
62.5°	921.8	911.5	889.4	976.3	1574.1	4735.5	12352.7	12871.0	15922.0	16534.5	9708.1
65°	789.3	767.2	705.3	692.1	795.1	1886.3	7693.7	8538.9	12156.8	14317.0	8668.5
67.5°	674.4	665.6	609.6	575.7	562.5	821.6	3969.8	4414.5	8309.2	10291.2	6565.8
70°	572.8	568.4	534.5	491.8	455.0	491.8	1472.5	1824.4	4631.0	5541.0	3098.1
72.5°	465.3	469.7	475.6	421.1	382.8	349.0	628.8	731.8	1937.8	1980.5	1083.7
75°	407.9	403.5	403.5	366.6	319.5	259.2	346.0	372.5	593.4	550.7	251.8
77.5°	287.1	276.8	323.9	301.9	266.5	184.1	197.3	209.1	245.9	210.6	117.8
80°	198.8	198.8	207.6	270.9	240.0	134.0	120.7	129.6	145.8	125.2	67.7
82.5°	111.9	114.9	135.5	144.3	139.9	89.8	79.5	81.0	97.2	85.4	42.7
85°	13.3	22.1	78.0	76.6	57.4	39.8	44.2	45.6	60.4	53.0	25.0
87.5°	1.5	2.9	16.2	20.6	14.7	16.2	16.2	16.2	20.6	23.6	17.7
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°	4848.9	4848.9	4848.9	4848.9	4848.9	4848.9	4848.9	4848.9	4848.9	4848.9	4848.9
2.5°	4868.0	4756.1	4489.6	4180.4	3983.1	3662.1	3391.1	3195.3	3146.7	3052.5	3080.4
5°	4862.1	4629.5	4086.1	3511.9	2899.3	2442.8	2102.7	1834.7	1716.9	1638.9	1584.4
7.5°	4865.1	4501.4	3629.7	2715.3	1983.4	1535.8	1220.7	1057.2	948.3	902.6	908.5
10°	4873.9	4357.1	3099.6	2011.4	1338.5	992.5	799.6	721.5	684.7	678.8	677.3
12.5°	4894.5	4199.5	2593.0	1493.1	936.5	721.5	647.9	621.4	609.6	609.6	605.2
15°	4916.6	4025.8	2171.9	1110.3	721.5	619.9	586.0	572.8	565.4	565.4	564.0
17.5°	4916.6	3825.5	1778.8	861.4	621.4	569.9	543.3	525.7	519.8	519.8	518.3
20°	4885.7	3592.9	1429.8	693.5	564.0	522.7	496.2	477.1	469.7	466.8	465.3
22.5°	4778.2	3282.2	1138.2	596.4	516.8	481.5	447.6	425.5	419.7	416.7	418.2
25°	4586.8	2931.7	901.2	524.2	474.1	431.4	402.0	385.8	379.9	379.9	381.4
27.5°	4389.5	2565.1	714.2	469.7	422.6	384.3	360.8	350.5	349.0	353.4	354.9
30°	4206.9	2196.9	578.7	425.5	377.0	344.6	328.4	325.4	325.4	326.9	328.4
32.5°	4003.7	1874.5	484.4	387.3	340.1	312.2	303.3	303.3	306.3	306.3	309.2
35°	3875.6	1597.6	425.5	350.5	312.2	288.6	282.7	284.2	288.6	294.5	297.4
37.5°	3806.4	1376.8	387.3	321.0	285.7	269.5	263.6	266.5	276.8	287.1	288.6
40°	3812.3	1210.4	356.3	296.0	265.0	247.4	243.0	251.8	262.1	272.4	273.9
42.5°	3877.0	1086.7	326.9	266.5	247.4	222.3	220.9	229.7	234.1	244.4	245.9
45°	3953.6	996.9	296.0	235.6	215.0	192.9	194.4	201.7	207.6	223.8	226.8
47.5°	3977.2	935.0	260.6	200.3	176.7	169.3	170.8	175.2	187.0	201.7	203.2
50°	4003.7	896.7	226.8	169.3	150.2	148.7	150.2	153.1	160.5	166.4	164.9
52.5°	4117.1	895.3	198.8	147.2	128.1	131.1	132.5	131.1	125.2	116.3	113.4
54°	4223.1	899.7	185.5	136.9	117.8	122.2	120.7	113.4	98.7	89.8	85.4
55°	4308.5	904.1	178.2	129.6	111.9	113.4	114.9	100.1	81.0	72.2	69.2
57.5°	4476.3	893.8	160.5	113.4	98.7	92.8	91.3	66.3	44.2	38.3	35.3
60°	4392.4	806.9	145.8	97.2	83.9	75.1	61.8	36.8	22.1	16.2	16.2
62.5°	4062.6	684.7	129.6	79.5	69.2	57.4	32.4	20.6	10.3	5.9	4.4
65°	3634.1	575.7	116.3	63.3	54.5	36.8	17.7	13.3	4.4	0.0	0.0
67.5°	2702.0	427.0	98.7	50.1	41.2	23.6	11.8	7.4	1.5	0.0	0.0
70°	1251.6	260.6	83.9	38.3	29.4	17.7	8.8	4.4	0.0	0.0	0.0
72.5°	359.3	163.4	69.2	28.0	20.6	14.7	7.4	2.9	1.5	0.0	0.0
75°	125.2	131.1	51.5	20.6	16.2	10.3	5.9	2.9	1.5	0.0	0.0
77.5°	75.1	106.0	32.4	17.7	13.3	8.8	5.9	2.9	1.5	1.5	0.0
80°	42.7	70.7	20.6	14.7	11.8	7.4	4.4	2.9	1.5	1.5	0.0
82.5°	23.6	33.9	16.2	13.3	10.3	7.4	4.4	2.9	1.5	1.5	1.5
85°	19.1	17.7	13.3	11.8	8.8	5.9	4.4	1.5	0.0	0.0	0.0
87.5°	14.7	11.8	11.8	11.8	8.8	5.9	4.4	1.5	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)