

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: McGRAW-EDISON

Report Number: P457637

Luminaire Tested: **GALN-SA9A-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27146 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

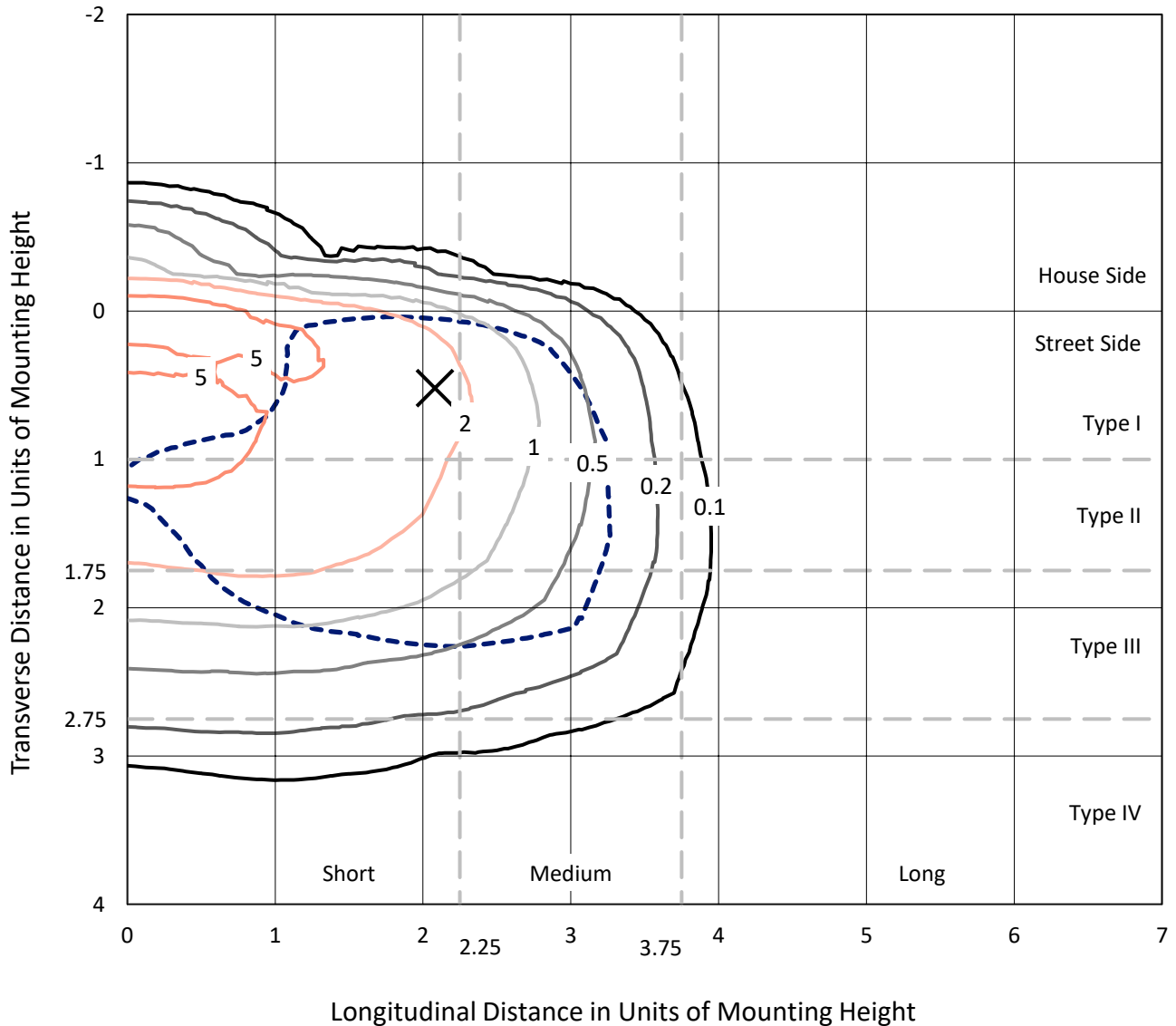
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457637
 CATALOG NUMBER: GALN-SA9A-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

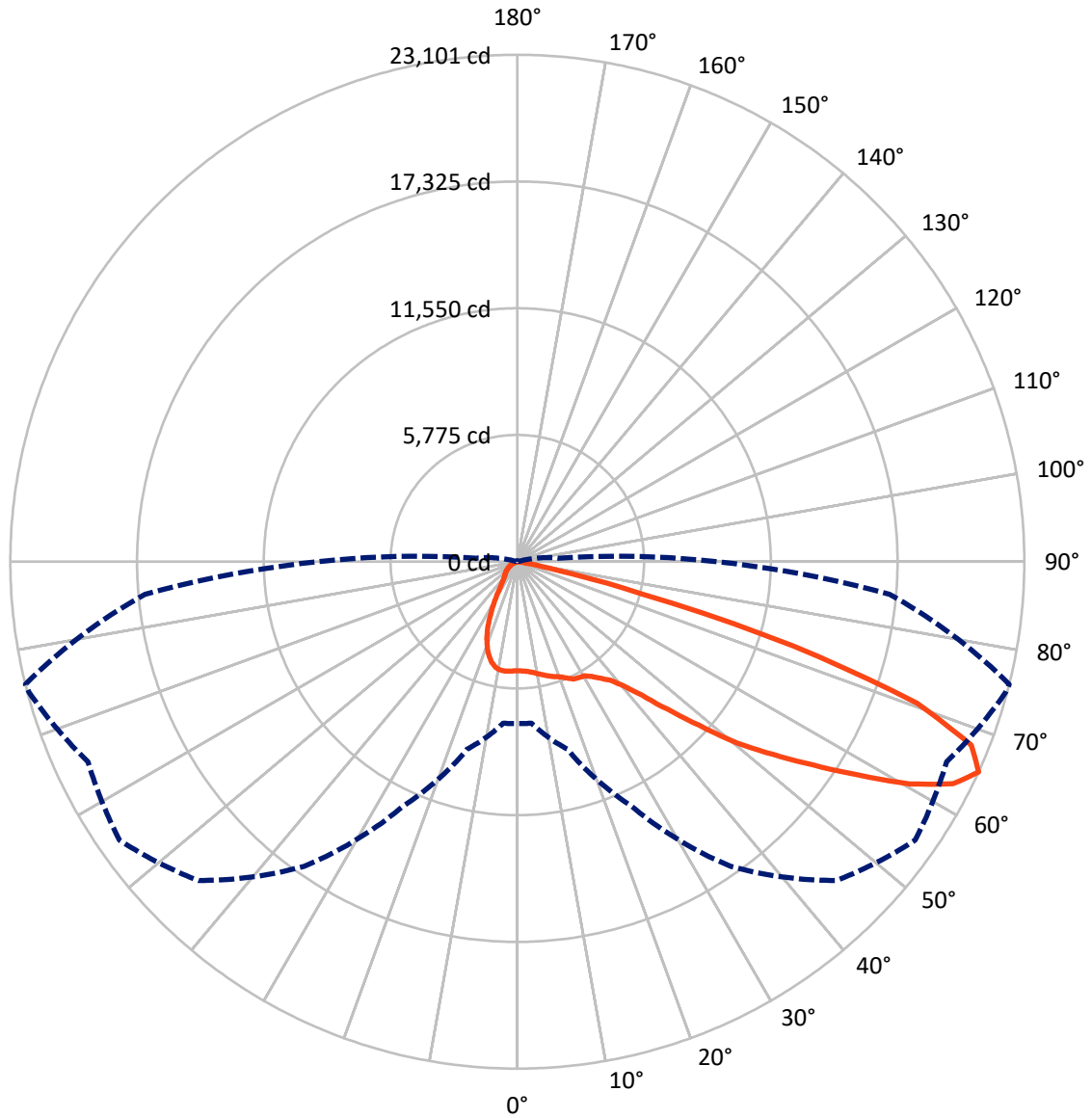
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

REPORT NUMBER: P457637
CATALOG NUMBER: GALN-SA9A-727-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P457637

CATALOG NUMBER: GALN-SA9A-727-U-T3R-HSS

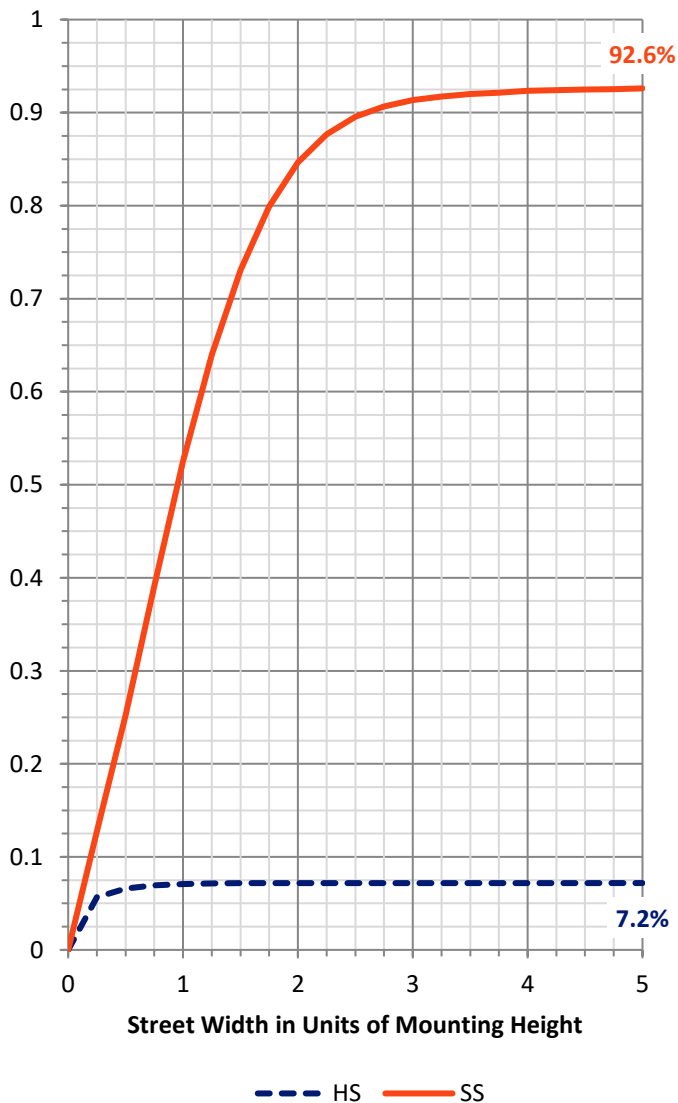
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1960.5	0.0	1960.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	25185.5	0.0	25185.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	27146.0	0.0	27146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.1	1.5
10°-20°	910.8	3.4
20°-30°	1467.7	5.4
30°-40°	2552.0	9.4
40°-50°	4217.0	15.5
50°-60°	6514.4	24.0
60°-70°	7955.1	29.3
70°-80°	3019.1	11.1
80°-90°	100.8	0.4
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°	27146.0	100.0
0°-180°	27146.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457637

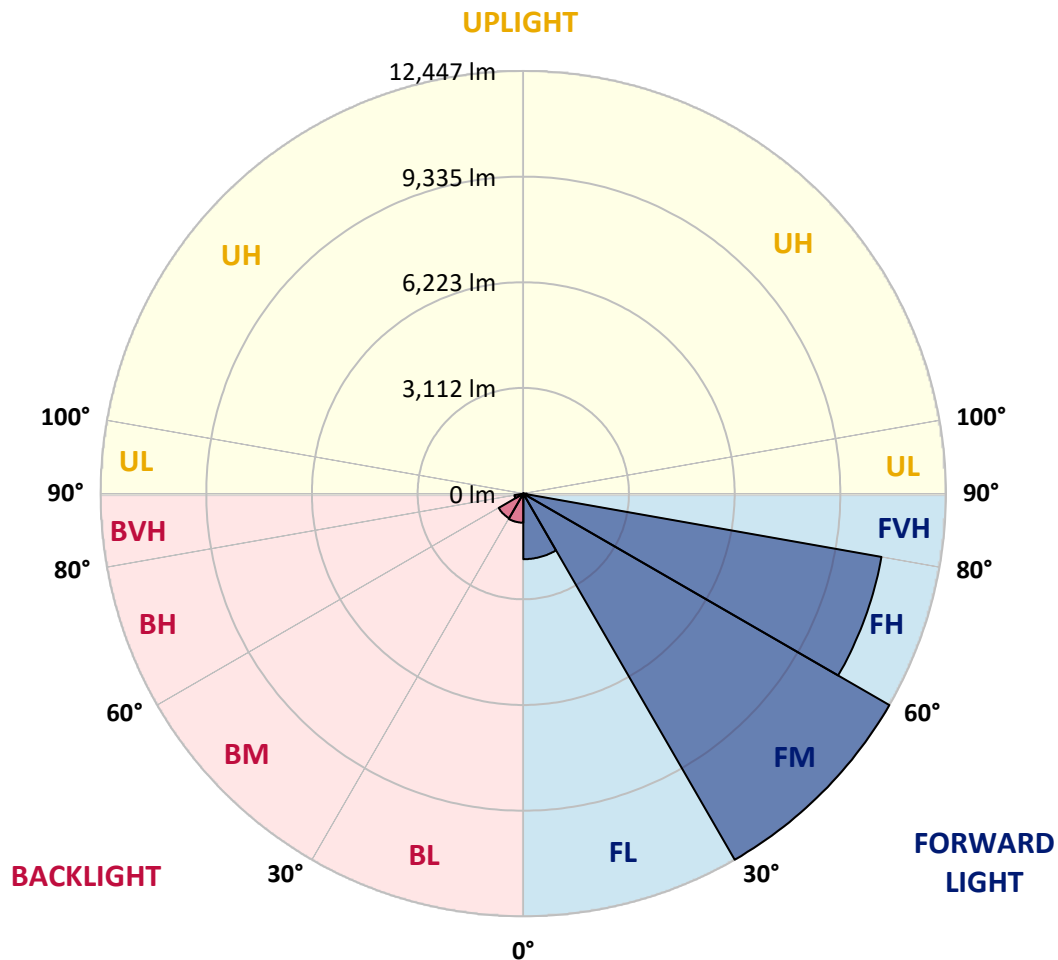
CATALOG NUMBER: GALN-SA9A-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1931.1	7.1			
FM (30°-60°)	12446.9	45.9			
FH (60°-80°)	10708.2	39.4			G4/12000
FVH (80°-90°)	99.4	0.4			G1/100
BL (0°-30°)	856.5	3.2	B2/1000		
BM (30°-60°)	836.6	3.1	B1/1000		
BH (60°-80°)	266.0	1.0	B1/500		G1/500
BVH (80°-90°)	1.4	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 III Short





REPORT NUMBER: P457637

CATALOG NUMBER: GALN-SA9A-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4965.9	4965.9	4965.9	4965.9	4965.9	4965.9	4965.9	4965.9	4965.9	4965.9	4965.9
2.5°	4745.5	4747.4	4758.9	4787.6	4831.7	4868.1	4898.8	4948.6	4983.1	4987.0	4998.5
5°	4417.7	4394.7	4417.7	4492.5	4559.6	4661.1	4785.7	4910.3	5021.5	5029.1	5082.8
7.5°	4049.7	4068.9	4105.3	4182.0	4308.5	4463.7	4643.9	4866.2	5077.0	5096.2	5201.6
10°	3676.0	3718.2	3777.6	3894.5	4070.8	4272.1	4517.4	4835.5	5165.2	5192.0	5374.1
12.5°	3331.0	3350.2	3423.0	3580.2	3798.7	4082.3	4421.6	4818.3	5262.9	5295.5	5558.1
15°	3066.5	3091.5	3154.7	3296.5	3539.9	3904.1	4343.0	4812.5	5358.8	5404.8	5742.1
17.5°	3016.7	3032.0	3058.9	3154.7	3367.4	3762.3	4272.1	4810.6	5450.8	5506.3	5912.7
20°	3221.8	3208.4	3181.5	3171.9	3288.9	3653.0	4220.3	4826.0	5538.9	5602.2	6092.8
22.5°	3735.4	3752.7	3595.5	3409.6	3371.3	3635.8	4212.7	4898.8	5678.8	5753.6	6294.1
25°	4826.0	4693.7	4448.4	4003.7	3668.3	3741.2	4298.9	5071.3	5841.7	5924.2	6476.1
27.5°	6031.5	5991.2	5609.8	4877.7	4252.9	3963.5	4452.2	5203.5	5895.4	5979.7	6579.6
30°	7215.9	7263.9	6826.9	6018.1	5101.9	4375.6	4596.0	5253.4	5943.3	6031.5	6711.9
32.5°	8314.1	8371.6	7988.3	7187.2	6102.4	5088.5	4843.2	5446.9	6144.6	6234.6	6932.3
35°	9178.5	9186.2	8896.8	8258.6	7194.9	5954.8	5377.9	5786.2	6416.7	6522.1	7166.1
37.5°	9972.0	9960.5	9621.3	9071.2	8105.2	6815.4	6050.7	6177.2	6727.2	6836.5	7503.4
40°	10560.4	10568.0	10458.8	9941.3	8954.3	7610.8	6583.5	6543.2	7248.5	7419.1	7994.1
42.5°	10953.3	11024.2	11077.9	10815.3	10021.8	8590.1	7401.8	7327.1	8153.1	8295.0	8687.9
45°	11271.4	11397.9	11666.2	11652.8	11047.2	9791.8	8525.0	8371.6	9435.3	9586.8	9571.4
47.5°	11503.3	11631.7	12076.4	12344.7	12011.2	10957.1	9937.5	9805.2	10966.7	11131.5	10547.0
50°	11622.2	11775.5	12342.8	12862.2	12764.5	12080.2	11547.4	11555.1	12816.2	12975.3	11677.7
52.5°	11344.3	11543.6	12484.6	13419.9	13609.7	13155.4	13055.8	13308.8	14462.5	14598.6	12699.3
55°	10456.9	10708.0	12291.1	13895.2	14589.0	14424.2	14769.2	15154.4	16262.2	16350.4	13747.7
57.5°	9895.3	10161.7	11719.9	14299.6	15765.8	16018.8	16565.0	16846.8	18119.4	18343.6	14951.3
60°	9421.9	9630.8	11250.3	14385.9	16961.8	17969.9	18500.8	18792.1	20411.6	20557.3	16275.6
62.5°	8634.2	8873.8	10456.9	13784.1	17563.6	19531.9	20632.0	20501.7	22184.5	22286.0	17088.3
65°	7367.3	7388.4	8847.0	12271.9	16942.6	20545.8	22128.9	21582.7	23031.6	23100.6	17025.0
67.5°	5498.7	5701.8	6805.8	9646.2	14311.1	19679.5	22613.8	21611.4	22496.9	22305.2	15673.8
70°	3541.8	3697.1	4613.2	6688.9	10318.9	16423.2	21005.8	20129.9	19744.7	19319.2	12829.6
72.5°	1634.8	1834.2	2740.7	3821.7	6119.7	11698.8	17051.8	16354.2	14211.5	13161.2	8155.1
75°	713.0	762.8	1353.1	2016.2	2869.1	6186.7	11242.7	10152.1	6418.6	5862.8	3263.9
77.5°	435.1	467.6	709.1	1081.0	1127.0	2357.4	6056.4	4429.2	1983.7	1749.8	885.5
80°	295.2	331.6	515.6	565.4	385.2	657.4	2273.1	1182.5	400.6	383.3	189.7
82.5°	143.7	182.1	381.4	316.2	166.7	210.8	661.2	253.0	116.9	109.2	67.1
85°	21.1	36.4	214.7	207.0	74.7	49.8	116.9	63.2	40.2	38.3	30.7
87.5°	0.0	0.0	72.8	32.6	7.7	7.7	13.4	13.4	15.3	13.4	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P457637

CATALOG NUMBER: GALN-SA9A-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4965.9	4965.9	4965.9	4965.9	4965.9	4965.9	4965.9	4965.9	4965.9	4965.9	4965.9
2.5°	5004.2	5013.8	4977.4	4925.6	4870.0	4814.5	4735.9	4665.0	4622.8	4647.7	4586.4
5°	5094.3	5086.6	4990.8	4833.6	4624.7	4373.6	4124.5	3911.7	3842.8	3739.3	3727.8
7.5°	5218.9	5197.8	4994.6	4634.3	4162.8	3691.3	3231.4	2926.6	2752.2	2604.6	2608.5
10°	5393.3	5331.9	4950.5	4283.6	3507.3	2796.3	2209.8	1807.3	1632.9	1577.3	1533.3
12.5°	5573.4	5454.6	4827.9	3810.2	2731.1	1910.8	1343.5	1098.2	990.9	956.4	952.5
15°	5734.4	5546.6	4613.2	3240.9	1985.6	1220.9	916.1	835.6	822.2	824.1	822.2
17.5°	5893.5	5619.4	4316.1	2637.2	1349.3	875.9	787.7	768.6	774.3	782.0	780.0
20°	6025.7	5634.8	3936.7	2012.4	954.5	768.6	739.8	736.0	741.7	747.5	747.5
22.5°	6169.5	5646.3	3486.3	1393.4	780.0	714.9	699.6	699.6	707.2	714.9	716.8
25°	6276.8	5583.0	2947.7	1000.5	688.1	663.1	655.5	657.4	665.1	668.9	667.0
27.5°	6294.1	5404.8	2376.6	766.6	624.8	599.9	592.2	599.9	590.3	596.1	592.2
30°	6309.4	5178.6	1797.8	645.9	567.3	529.0	517.5	506.0	498.3	488.7	486.8
32.5°	6357.3	4912.2	1312.9	580.7	513.6	471.5	444.6	412.1	387.2	379.5	377.6
35°	6378.4	4592.1	964.0	529.0	465.7	419.7	371.8	325.8	289.4	276.0	285.6
37.5°	6458.9	4281.6	747.5	490.6	423.6	366.1	304.7	247.2	212.7	205.1	208.9
40°	6623.7	3944.3	626.7	458.1	387.2	316.2	241.5	185.9	162.9	155.2	153.3
42.5°	6888.2	3608.9	557.7	427.4	350.7	266.4	189.7	145.7	126.5	120.7	120.7
45°	7210.2	3286.9	509.8	394.8	312.4	214.7	149.5	116.9	105.4	101.6	101.6
47.5°	7633.8	3005.2	469.6	362.2	270.2	170.6	120.7	101.6	93.9	95.8	97.7
50°	8063.1	2796.3	425.5	325.8	222.3	139.9	103.5	90.1	88.2	90.1	90.1
52.5°	8387.0	2673.6	366.1	276.0	174.4	116.9	92.0	84.3	82.4	78.6	78.6
55°	8824.0	2646.8	291.3	224.2	138.0	97.7	82.4	76.7	70.9	67.1	65.2
57.5°	9385.5	2677.5	224.2	174.4	107.3	80.5	72.8	63.2	55.6	47.9	47.9
60°	9734.3	2608.5	174.4	134.2	78.6	65.2	55.6	46.0	36.4	30.7	28.7
62.5°	9623.2	2317.2	138.0	99.7	55.6	47.9	36.4	30.7	21.1	15.3	13.4
65°	9050.1	1870.6	111.2	69.0	40.2	28.7	19.2	19.2	9.6	1.9	0.0
67.5°	7921.2	1385.7	88.2	46.0	23.0	13.4	9.6	5.7	0.0	0.0	0.0
70°	6447.4	1000.5	69.0	28.7	13.4	9.6	3.8	1.9	0.0	0.0	0.0
72.5°	4093.8	573.1	53.7	17.2	9.6	3.8	0.0	0.0	0.0	0.0	0.0
75°	1583.1	224.2	36.4	11.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	448.5	105.4	21.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	116.9	46.0	11.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.6	19.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.6	7.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.3	1.9	0.0	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)