

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: P457782

Luminaire Tested: **GALN-SA9A-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457782
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-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 23861 lumens
Efficiency: N/A
Efficacy: 87.1 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

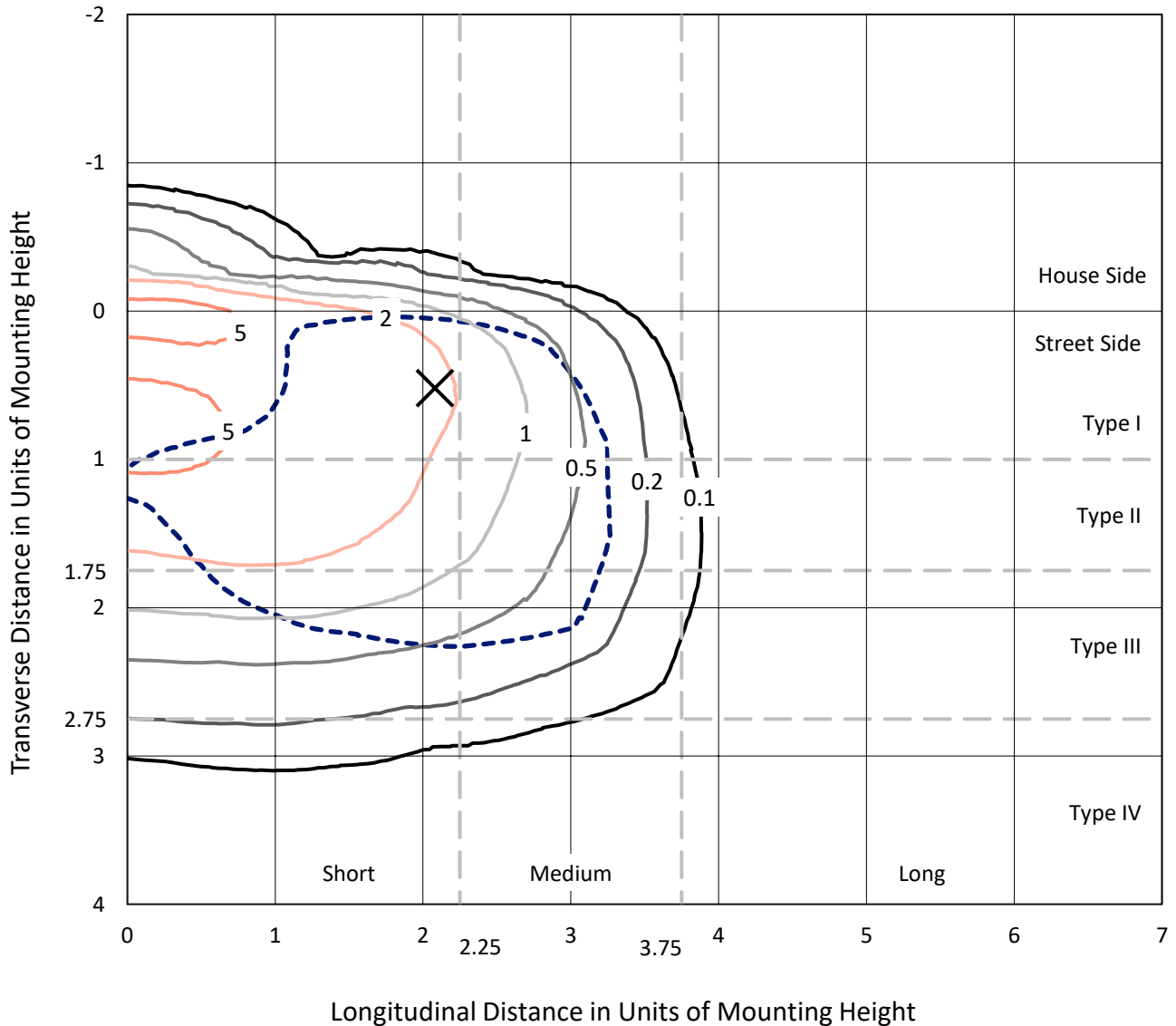




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Iso-Footcandle Lines of Horizontal Illumination

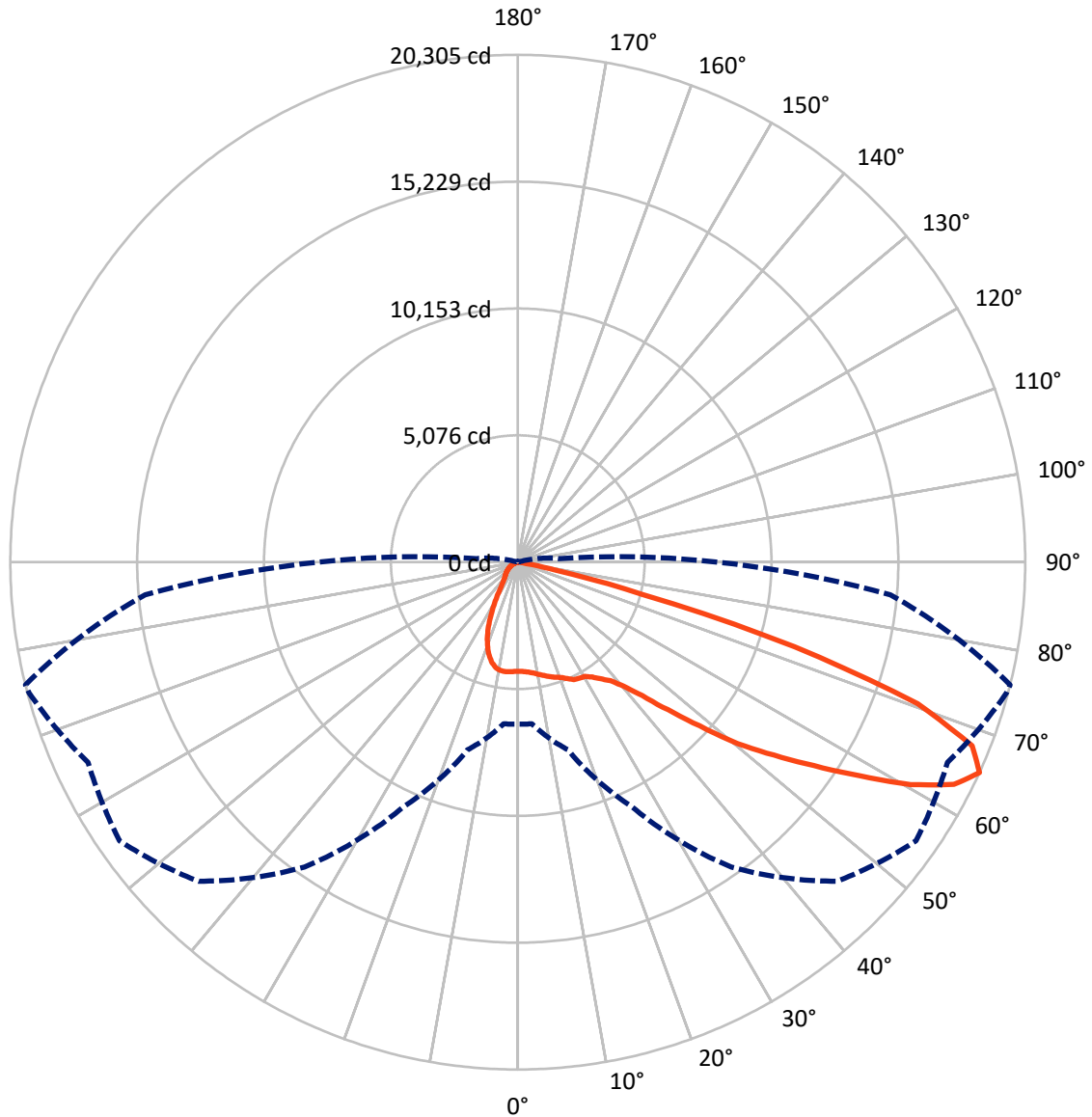
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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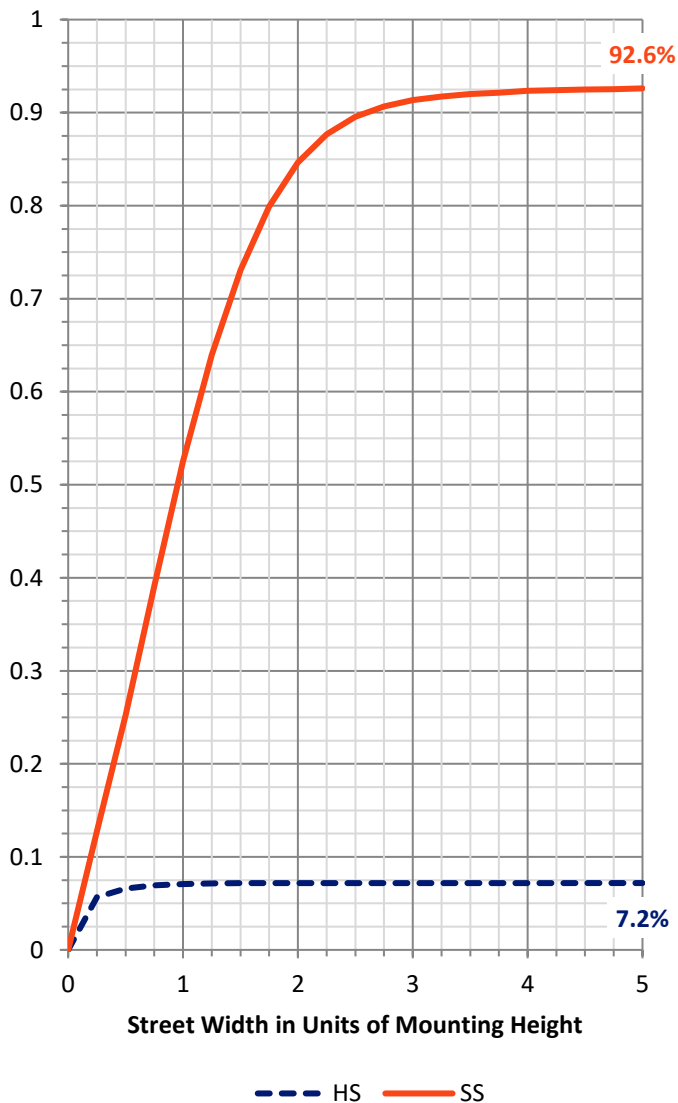
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1723.2	0.0	1723.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22137.8	0.0	22137.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	23861.0	0.0	23861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.6	1.5
10°-20°	800.6	3.4
20°-30°	1290.1	5.4
30°-40°	2243.2	9.4
40°-50°	3706.7	15.5
50°-60°	5726.1	24.0
60°-70°	6992.4	29.3
70°-80°	2653.8	11.1
80°-90°	88.6	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°	23861.0	100.0
0°-180°	23861.0	100.0

Coefficient of Utilization



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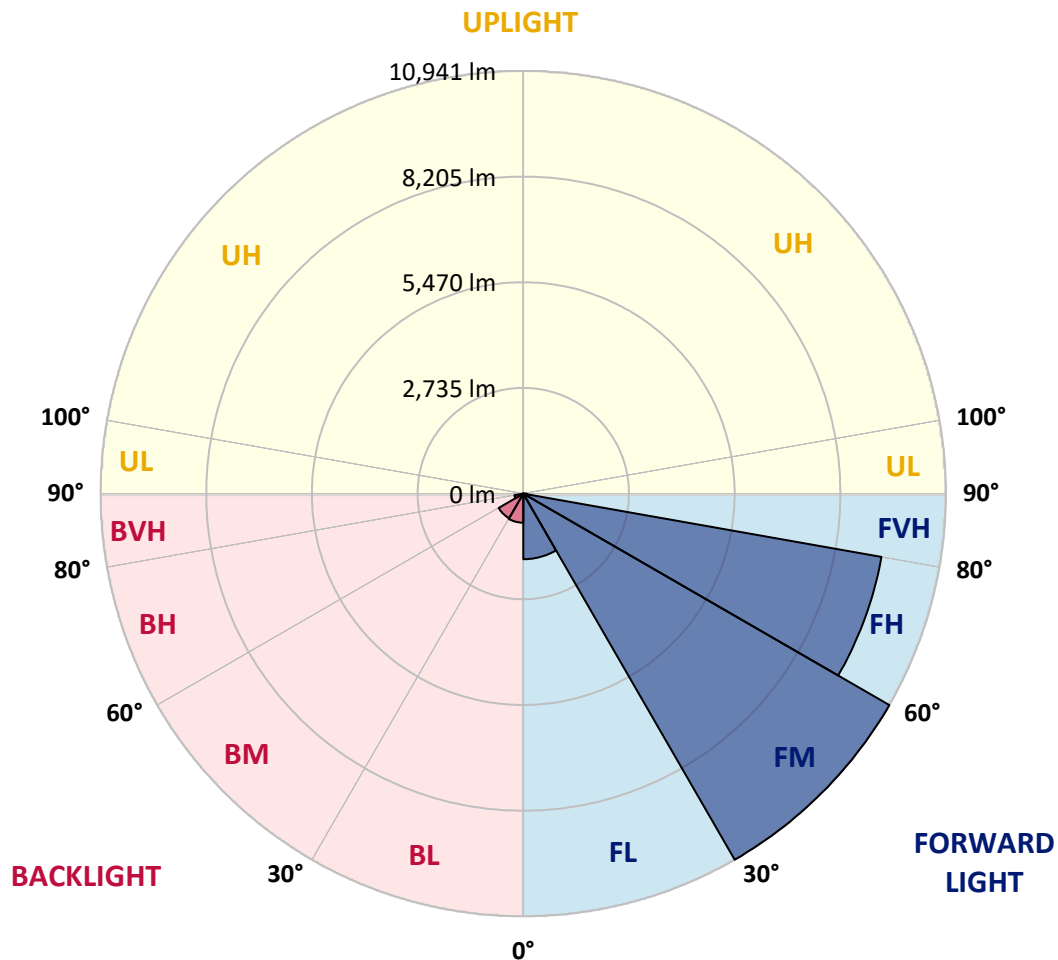
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1697.4	7.1			
FM	(30°-60°)	10940.6	45.9			
FH	(60°-80°)	9412.4	39.4			G4/12000
FVH	(80°-90°)	87.3	0.4			G1/100
BL	(0°-30°)	752.8	3.2	B2/1000		
BM	(30°-60°)	735.4	3.1	B1/1000		
BH	(60°-80°)	233.8	1.0	B1/500		G1/500
BVH	(80°-90°)	1.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9
2.5°	4171.2	4172.9	4183.0	4208.3	4247.0	4279.0	4306.0	4349.8	4380.1	4383.5	4393.6
5°	3883.1	3862.9	3883.1	3948.8	4007.8	4097.1	4206.6	4316.1	4413.8	4420.5	4467.7
7.5°	3559.7	3576.5	3608.5	3675.9	3787.1	3923.6	4081.9	4277.3	4462.6	4479.5	4572.2
10°	3231.2	3268.2	3320.5	3423.2	3578.2	3755.1	3970.7	4250.4	4540.1	4563.7	4723.8
12.5°	2927.9	2944.8	3008.8	3146.9	3339.0	3588.3	3886.5	4235.2	4626.1	4654.7	4885.5
15°	2695.4	2717.3	2772.9	2897.6	3111.6	3431.6	3817.4	4230.2	4710.3	4750.7	5047.2
17.5°	2651.6	2665.1	2688.7	2772.9	2959.9	3307.0	3755.1	4228.5	4791.2	4840.0	5197.2
20°	2831.9	2820.1	2796.5	2788.1	2890.9	3211.0	3709.6	4242.0	4868.6	4924.2	5355.5
22.5°	3283.4	3298.6	3160.4	2997.0	2963.3	3195.8	3702.9	4306.0	4991.6	5057.3	5532.4
25°	4242.0	4125.7	3910.1	3519.2	3224.4	3288.4	3778.7	4457.6	5134.8	5207.3	5692.4
27.5°	5301.6	5266.2	4931.0	4287.4	3738.2	3483.9	3913.5	4573.8	5182.0	5256.1	5783.4
30°	6342.7	6384.8	6000.7	5289.8	4484.5	3846.1	4039.8	4617.6	5224.1	5301.6	5899.7
32.5°	7308.0	7358.6	7021.6	6317.5	5363.9	4472.8	4257.1	4787.8	5401.0	5480.2	6093.4
35°	8067.8	8074.5	7820.2	7259.2	6324.2	5234.2	4727.1	5086.0	5640.2	5732.9	6298.9
37.5°	8765.3	8755.1	8457.0	7973.5	7124.4	5990.6	5318.5	5429.6	5913.1	6009.2	6595.4
40°	9282.4	9289.2	9193.2	8738.3	7870.7	6689.8	5786.8	5751.4	6371.4	6521.3	7026.7
42.5°	9627.8	9690.1	9737.3	9506.5	8809.1	7550.6	6506.1	6440.4	7166.5	7291.2	7636.5
45°	9907.4	10018.6	10254.5	10242.7	9710.3	8606.9	7493.3	7358.6	8293.6	8426.6	8413.2
47.5°	10111.3	10224.2	10615.0	10850.9	10557.7	9631.2	8734.9	8618.7	9639.6	9784.5	9270.7
50°	10215.7	10350.5	10849.2	11305.7	11219.8	10618.4	10150.0	10156.8	11265.3	11405.1	10264.6
52.5°	9971.5	10146.7	10973.8	11795.9	11962.7	11563.5	11475.9	11698.2	12712.4	12832.0	11162.5
55°	9191.5	9412.2	10803.7	12213.7	12823.6	12678.7	12981.9	13320.6	14294.3	14371.8	12084.0
57.5°	8697.9	8932.0	10301.7	12569.2	13858.0	14080.3	14560.5	14808.1	15926.7	16123.8	13142.0
60°	8281.8	8465.4	9888.9	12645.0	14909.2	15795.3	16262.0	16518.0	17941.6	18069.6	14306.1
62.5°	7589.4	7799.9	9191.5	12116.0	15438.2	17168.3	18135.3	18020.7	19499.9	19589.2	15020.4
65°	6475.8	6494.3	7776.4	10786.8	14892.3	18059.5	19451.0	18970.9	20244.5	20305.1	14964.8
67.5°	4833.3	5011.8	5982.2	8478.9	12579.3	17298.0	19877.2	18996.2	19774.5	19606.0	13777.1
70°	3113.2	3249.7	4055.0	5879.4	9070.2	14435.8	18463.8	17693.9	17355.3	16981.3	11277.1
72.5°	1437.0	1612.2	2409.1	3359.2	5379.1	10283.1	14988.4	14375.2	12491.7	11568.5	7168.2
75°	626.7	670.5	1189.4	1772.3	2521.9	5438.1	9882.2	8923.6	5641.9	5153.4	2869.0
77.5°	382.4	411.1	623.3	950.1	990.6	2072.1	5323.5	3893.2	1743.6	1538.1	778.3
80°	259.4	291.4	453.2	497.0	338.6	577.8	1998.0	1039.4	352.1	336.9	166.8
82.5°	126.3	160.0	335.2	278.0	146.6	185.3	581.2	222.4	102.8	96.0	59.0
85°	18.5	32.0	188.7	181.9	65.7	43.8	102.8	55.6	35.4	33.7	27.0
87.5°	0.0	0.0	64.0	28.6	6.7	6.7	11.8	11.8	13.5	11.8	13.5
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°	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9	4364.9
2.5°	4398.6	4407.1	4375.0	4329.6	4280.7	4231.9	4162.8	4100.4	4063.4	4085.3	4031.4
5°	4477.8	4471.1	4386.8	4248.7	4065.1	3844.4	3625.4	3438.4	3377.7	3286.8	3276.7
7.5°	4587.3	4568.8	4390.2	4073.5	3659.1	3244.6	2840.3	2572.5	2419.2	2289.4	2292.8
10°	4740.6	4686.7	4351.5	3765.2	3082.9	2457.9	1942.4	1588.6	1435.3	1386.5	1347.7
12.5°	4899.0	4794.5	4243.6	3349.1	2400.6	1679.6	1180.9	965.3	871.0	840.6	837.3
15°	5040.5	4875.4	4055.0	2848.7	1745.3	1073.1	805.3	734.5	722.7	724.4	722.7
17.5°	5180.3	4939.4	3793.8	2318.1	1186.0	769.9	692.4	675.5	680.6	687.3	685.7
20°	5296.6	4952.9	3460.3	1768.9	839.0	675.5	650.3	646.9	652.0	657.0	657.0
22.5°	5422.9	4963.0	3064.4	1224.7	685.7	628.4	614.9	614.9	621.6	628.4	630.1
25°	5517.2	4907.4	2591.0	879.4	604.8	582.9	576.2	577.8	584.6	587.9	586.3
27.5°	5532.4	4750.7	2089.0	673.9	549.2	527.3	520.6	527.3	518.9	523.9	520.6
30°	5545.9	4551.9	1580.2	567.7	498.7	465.0	454.9	444.7	438.0	429.6	427.9
32.5°	5588.0	4317.8	1154.0	510.5	451.5	414.4	390.8	362.2	340.3	333.6	331.9
35°	5606.5	4036.4	847.4	465.0	409.4	368.9	326.8	286.4	254.4	242.6	251.0
37.5°	5677.3	3763.5	657.0	431.3	372.3	321.8	267.9	217.3	187.0	180.3	183.6
40°	5822.2	3467.0	550.9	402.6	340.3	278.0	212.3	163.4	143.2	136.5	134.8
42.5°	6054.6	3172.2	490.2	375.7	308.3	234.2	166.8	128.0	111.2	106.1	106.1
45°	6337.7	2889.2	448.1	347.0	274.6	188.7	131.4	102.8	92.7	89.3	89.3
47.5°	6710.0	2641.5	412.7	318.4	237.5	149.9	106.1	89.3	82.5	84.2	85.9
50°	7087.3	2457.9	374.0	286.4	195.4	123.0	91.0	79.2	77.5	79.2	79.2
52.5°	7372.0	2350.1	321.8	242.6	153.3	102.8	80.9	74.1	72.4	69.1	69.1
55°	7756.1	2326.5	256.1	197.1	121.3	85.9	72.4	67.4	62.3	59.0	57.3
57.5°	8249.8	2353.5	197.1	153.3	94.3	70.8	64.0	55.6	48.9	42.1	42.1
60°	8556.4	2292.8	153.3	117.9	69.1	57.3	48.9	40.4	32.0	27.0	25.3
62.5°	8458.6	2036.7	121.3	87.6	48.9	42.1	32.0	27.0	18.5	13.5	11.8
65°	7954.9	1644.2	97.7	60.6	35.4	25.3	16.8	16.8	8.4	1.7	0.0
67.5°	6962.7	1218.0	77.5	40.4	20.2	11.8	8.4	5.1	0.0	0.0	0.0
70°	5667.2	879.4	60.6	25.3	11.8	8.4	3.4	1.7	0.0	0.0	0.0
72.5°	3598.4	503.7	47.2	15.2	8.4	3.4	0.0	0.0	0.0	0.0	0.0
75°	1391.5	197.1	32.0	10.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	394.2	92.7	18.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	102.8	40.4	10.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	48.9	16.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.6	6.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.5	1.7	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)