

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: P650903

Luminaire Tested: **GALN-SA5C-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17316.2 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

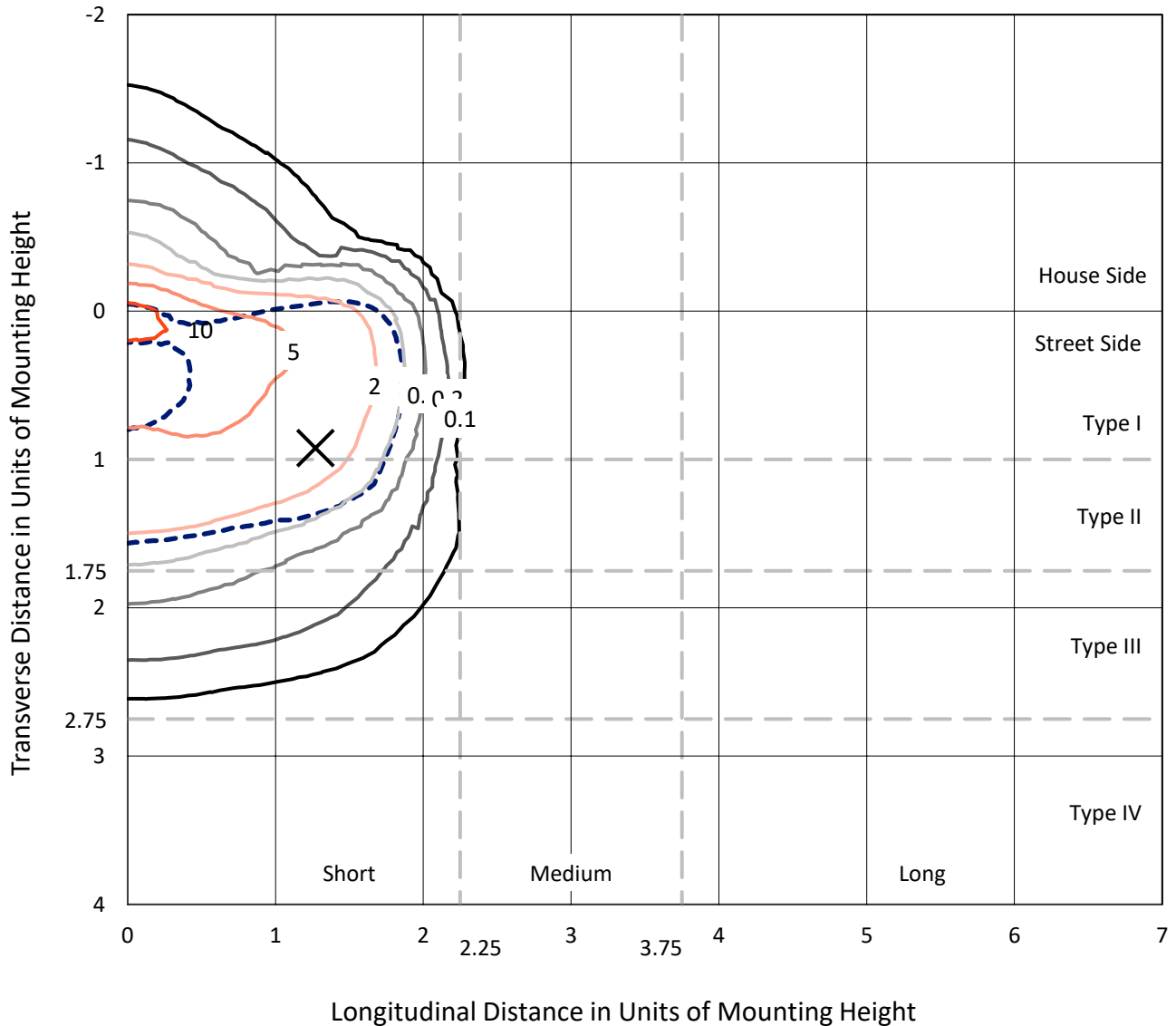
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650903
 CATALOG NUMBER: GALN-SA5C-840-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

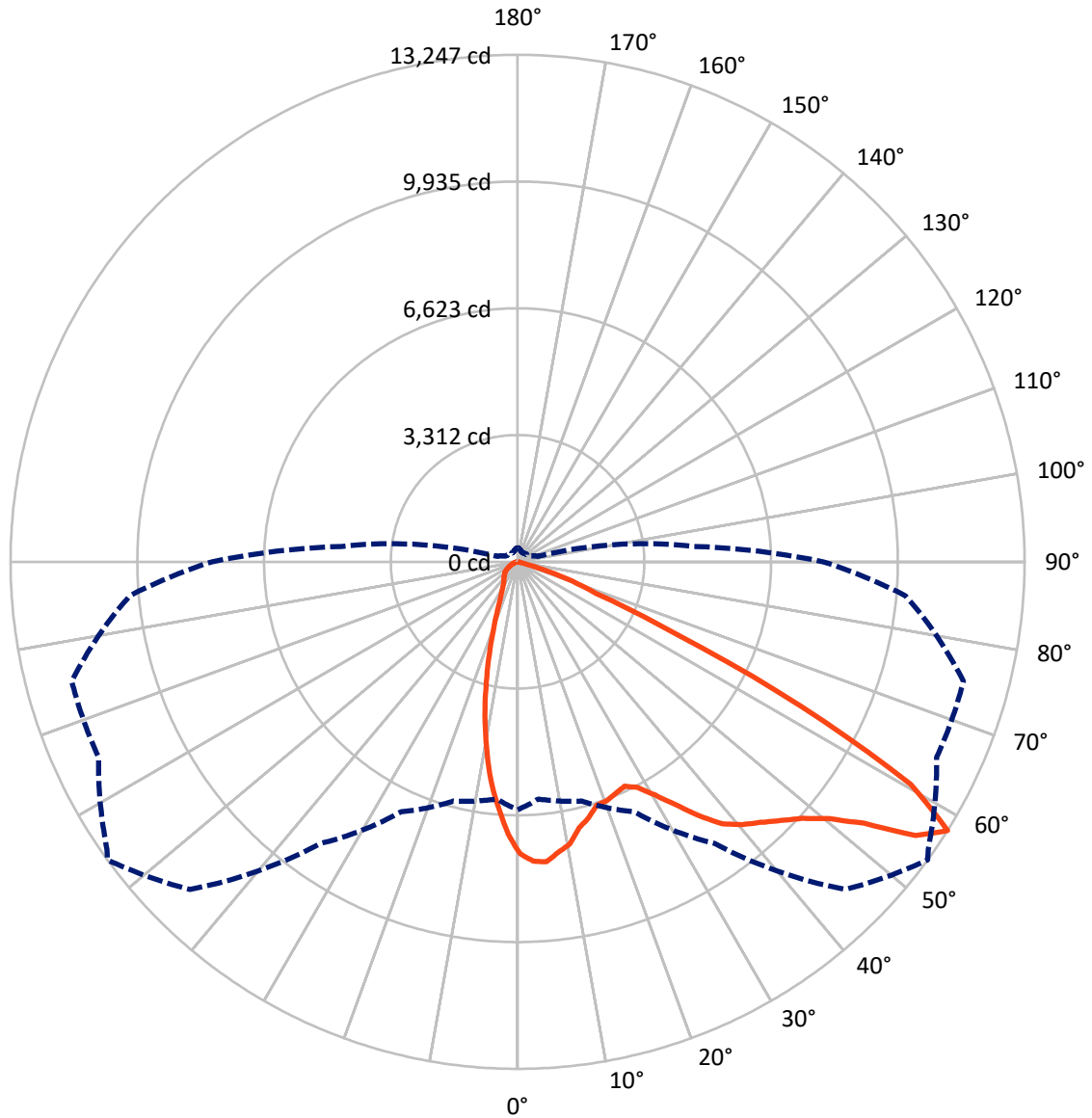
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

REPORT NUMBER: P650903
CATALOG NUMBER: GALN-SA5C-840-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P650903
 CATALOG NUMBER: GALN-SA5C-840-U-SL3-GRSBK

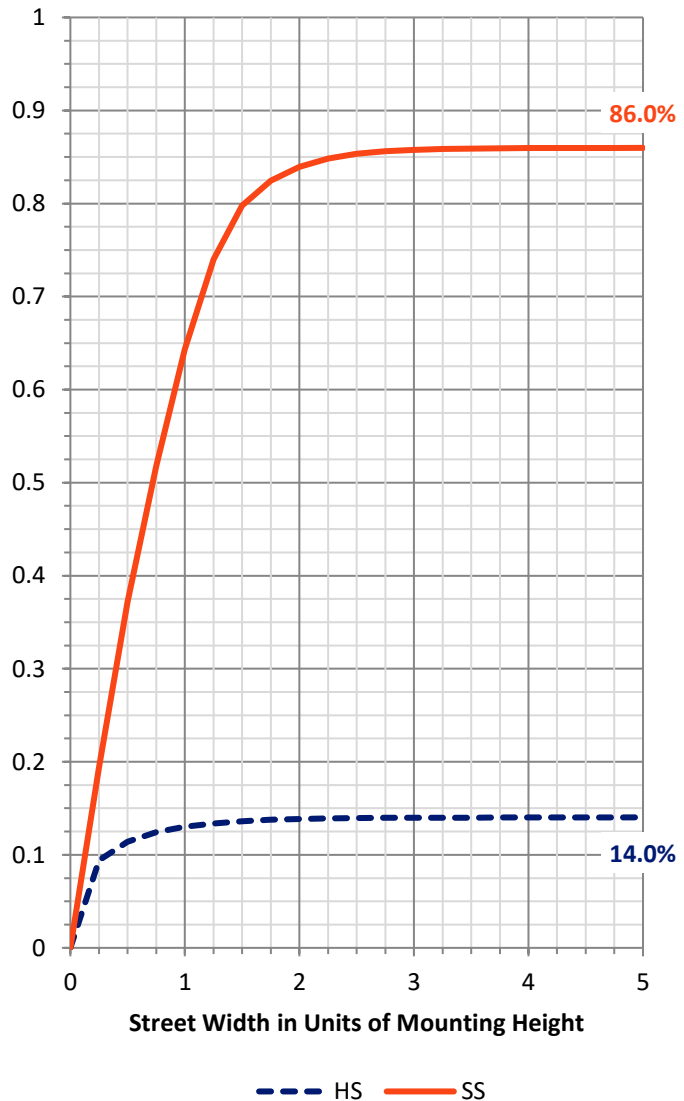
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2447.1	0.0	2447.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14869.1	0.0	14869.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	17316.2	0.0	17316.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.3	3.7
10°-20°	1362.8	7.9
20°-30°	1806.0	10.4
30°-40°	2624.6	15.2
40°-50°	3892.0	22.5
50°-60°	4866.7	28.1
60°-70°	1919.7	11.1
70°-80°	191.1	1.1
80°-90°	14.9	0.1
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°	17316.2	100.0
0°-180°	17316.2	100.0

Coefficient of Utilization

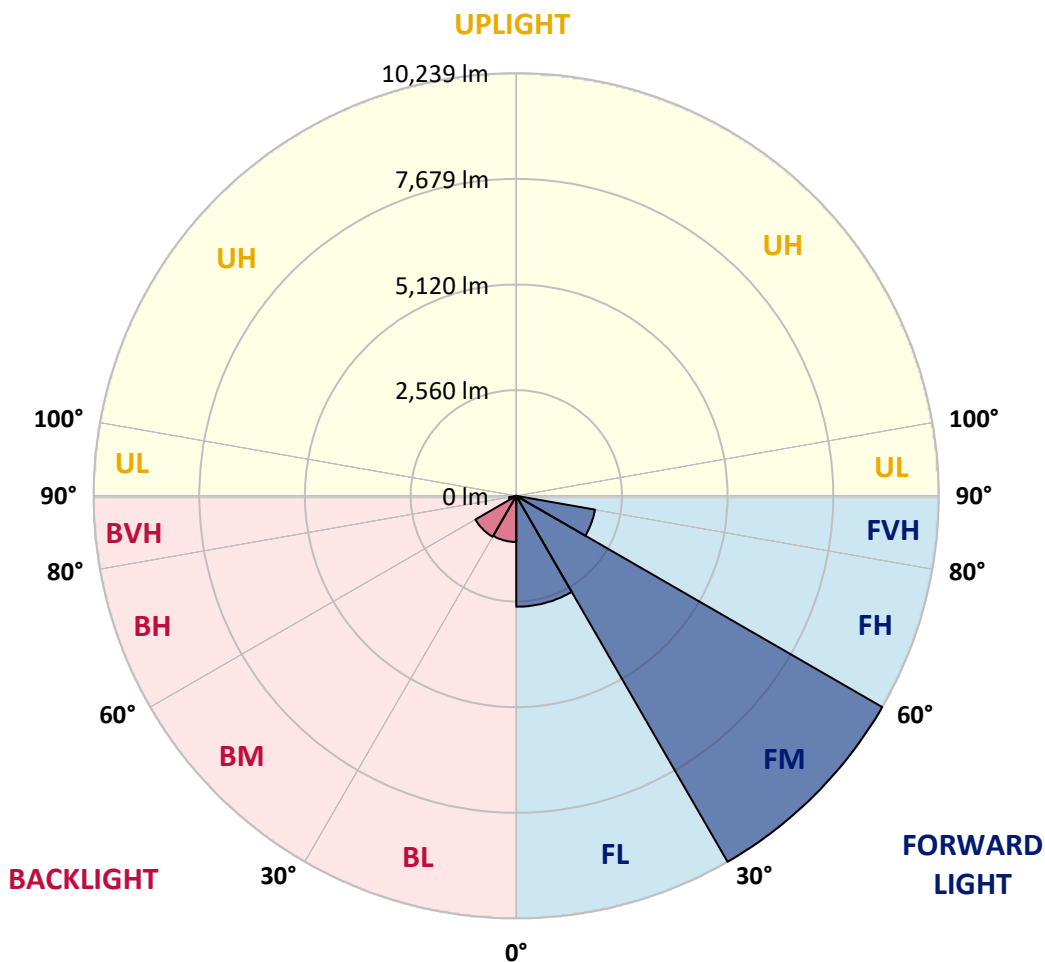


REPORT NUMBER: P650903
 CATALOG NUMBER: GALN-SA5C-840-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2688.0	15.5			
FM (30°-60°)	10239.0	59.1			
FH (60°-80°)	1935.4	11.2			G2/5000
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	1119.2	6.5	B3/2500		
BM (30°-60°)	1144.3	6.6	B2/2500		
BH (60°-80°)	175.5	1.0	B1/500		G1/500
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P650903

CATALOG NUMBER: GALN-SA5C-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7628.0	7628.0	7628.0	7628.0	7628.0	7628.0	7628.0	7628.0	7628.0	7628.0	7628.0
2.5°	8072.3	7988.7	7995.1	7966.1	7927.4	7956.4	7830.9	7859.8	7856.6	7686.0	7573.3
5°	7869.5	7959.6	7866.3	7943.6	7869.5	7950.0	7872.8	7814.7	7721.4	7595.8	7386.5
7.5°	7525.0	7438.1	7463.8	7560.4	7576.5	7756.8	7660.2	7734.3	7695.7	7447.7	7161.1
10°	6832.7	6813.4	6942.2	7071.0	7228.7	7421.9	7496.0	7454.1	7425.2	7331.8	6948.6
12.5°	6301.4	6356.1	6352.9	6565.4	6832.7	6942.2	7135.4	7128.9	7290.0	7116.0	6748.9
15°	5795.8	5824.9	5960.1	6092.1	6388.3	6700.7	6938.9	6971.1	7164.3	7042.0	6594.4
17.5°	5486.8	5444.9	5551.2	5709.0	6011.6	6420.5	6684.6	6761.9	7025.9	7000.1	6417.3
20°	5180.9	5180.9	5267.8	5454.6	5731.5	6191.9	6662.1	6639.5	7025.9	6951.8	6227.4
22.5°	5077.8	5129.3	5151.9	5293.6	5622.0	6018.0	6565.4	6607.3	7080.6	6929.3	6143.6
25°	5219.5	5151.9	5158.4	5271.1	5580.1	5934.3	6494.6	6588.0	7180.5	7042.0	6076.0
27.5°	5242.0	5309.7	5329.0	5406.3	5612.3	5960.1	6671.7	6861.6	7428.4	7306.0	6095.3
30°	5438.5	5506.1	5502.8	5634.9	5776.6	6169.4	7067.8	7106.4	7940.4	7637.7	6214.5
32.5°	5676.8	5747.6	5770.1	5924.7	6037.4	6552.6	7550.8	7650.6	8433.0	8159.3	6526.8
35°	5973.0	5947.2	6050.2	6204.8	6446.3	7112.8	8140.0	8307.4	8964.3	8835.5	6848.8
37.5°	6343.2	6311.0	6410.9	6662.1	6990.5	7776.1	8684.2	8793.7	9350.7	9463.4	7444.4
40°	6604.0	6617.0	6919.7	7257.7	7605.5	8407.2	9028.7	9134.9	9621.1	10049.4	7895.3
42.5°	7038.7	7119.2	7483.1	7895.3	8259.1	8880.5	9308.8	9411.9	9746.8	10519.5	8503.9
45°	7669.8	7634.4	8036.9	8497.4	8899.9	9373.2	9640.5	9605.1	9820.8	10986.4	8887.0
47.5°	8481.3	8487.7	8755.0	9147.8	9566.4	9801.4	10010.8	9885.2	9975.4	11479.1	9399.0
50°	9035.1	9083.4	9299.2	9701.7	9910.9	10271.6	10538.8	10461.5	10432.6	11775.3	9721.0
52.5°	9176.8	9321.7	9437.6	9939.9	10429.3	10999.3	11340.6	11504.8	10989.6	11875.1	10129.9
55°	8107.7	8236.6	8645.5	9334.6	10625.8	12152.0	12622.1	12625.3	11717.3	12319.5	10416.5
57.5°	6481.8	6220.9	6472.1	7203.0	8983.6	12103.8	13246.8	13095.5	12081.2	12058.7	10168.5
60°	4482.1	4417.8	4433.8	4723.6	6217.7	9627.6	11804.3	12000.6	11124.8	10451.9	8049.8
62.5°	3551.5	3496.9	3426.0	3393.8	3860.7	5998.8	8326.7	8603.7	7779.3	6778.0	4771.9
65°	2782.0	2749.8	2759.5	2888.2	2885.1	3403.4	4553.0	4440.3	3554.8	2627.5	1500.5
67.5°	1877.2	1925.6	1964.2	2353.8	2553.4	2369.9	2199.2	2134.8	1156.0	486.2	331.7
70°	1056.1	1062.6	1104.4	1471.5	1938.4	1838.6	1516.6	1516.6	576.3	177.1	190.0
72.5°	576.3	557.1	518.4	634.4	863.0	875.8	676.2	589.3	170.6	115.9	106.2
75°	280.1	276.9	238.3	196.5	186.8	154.6	119.2	109.5	77.3	74.1	64.4
77.5°	57.9	54.7	29.0	29.0	32.2	35.4	45.1	45.1	54.7	54.7	45.1
80°	0.0	0.0	3.2	12.9	22.5	32.2	38.6	38.6	45.1	45.1	35.4
82.5°	0.0	0.0	3.2	9.7	19.3	29.0	35.4	38.6	45.1	48.3	38.6
85°	0.0	0.0	0.0	6.5	16.1	22.5	19.3	19.3	16.1	12.9	6.5
87.5°	0.0	0.0	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



REPORT NUMBER: P650903

CATALOG NUMBER: GALN-SA5C-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7628.0	7628.0	7628.0	7628.0	7628.0	7628.0	7628.0	7628.0	7628.0	7628.0	7628.0
2.5°	7515.3	7508.9	7360.8	7277.0	7125.7	6993.7	6887.5	6810.2	6810.2	6761.9	6716.8
5°	7302.8	7248.1	6932.5	6729.7	6443.1	6230.5	6085.6	5973.0	5795.8	5844.2	5654.2
7.5°	7038.7	6900.3	6481.8	6172.6	5776.6	5473.9	5164.7	4891.1	4627.0	4507.9	4572.3
10°	6755.4	6513.9	5950.4	5461.0	4968.4	4414.5	4053.9	3616.0	3345.5	3329.4	3258.5
12.5°	6455.9	6182.3	5496.4	4820.3	4173.0	3506.5	2955.9	2547.0	2363.5	2160.6	2199.2
15°	6230.5	5824.9	4990.9	4176.2	3316.6	2643.6	2089.7	1774.2	1600.3	1552.0	1535.9
17.5°	5985.8	5551.2	4475.7	3490.4	2601.7	1903.0	1503.7	1352.4	1284.7	1284.7	1275.1
20°	5731.5	5242.0	3963.7	2852.8	1951.3	1420.0	1204.2	1156.0	1152.8	1149.5	1149.5
22.5°	5564.1	4887.9	3500.1	2266.8	1471.5	1136.6	1046.5	1027.2	1040.1	1078.7	1078.7
25°	5386.9	4546.5	2988.1	1748.4	1139.9	975.6	924.1	937.0	969.2	1004.7	991.7
27.5°	5206.6	4324.3	2505.1	1371.7	933.8	853.3	833.9	863.0	898.4	930.6	920.9
30°	5164.7	4086.1	2047.8	1040.1	801.7	743.8	756.6	782.5	817.9	830.7	843.6
32.5°	5229.2	3899.3	1677.5	853.3	698.7	682.6	682.6	695.5	718.0	747.1	737.4
35°	5412.7	3793.1	1326.6	740.6	640.8	624.7	621.4	634.4	647.2	656.9	647.2
37.5°	5692.8	3709.4	1085.1	656.9	602.2	576.3	569.9	566.7	579.6	582.8	589.3
40°	6050.2	3754.5	920.9	605.4	563.5	534.5	515.2	515.2	515.2	524.9	528.1
42.5°	6436.7	3815.6	795.3	576.3	528.1	492.7	473.3	466.9	473.3	486.2	483.0
45°	6842.4	3934.8	714.8	531.3	495.9	450.8	425.0	418.6	434.7	460.4	457.3
47.5°	7222.3	4105.4	653.6	502.3	463.6	421.8	389.6	383.2	412.2	447.6	450.8
50°	7602.2	4401.6	631.1	479.8	441.1	392.8	363.8	357.4	389.6	434.7	444.4
52.5°	8040.1	4720.4	615.0	450.8	415.4	370.3	338.1	331.7	367.1	425.0	428.2
55°	8326.7	4990.9	602.2	399.3	367.1	334.9	309.2	305.9	344.6	396.0	408.9
57.5°	7991.9	4614.1	557.1	347.8	312.3	296.2	273.7	273.7	305.9	354.2	363.8
60°	6059.9	3036.4	396.0	280.1	264.1	254.4	244.7	244.7	270.5	305.9	309.2
62.5°	3548.3	1635.7	254.4	225.4	225.4	215.7	199.7	199.7	225.4	244.7	247.9
65°	1052.9	524.9	206.0	193.2	190.0	173.8	157.8	154.6	173.8	183.5	180.3
67.5°	302.7	241.5	170.6	161.0	157.8	132.0	122.4	119.2	122.4	115.9	112.7
70°	180.3	164.2	132.0	135.2	119.2	96.6	87.0	83.7	77.3	67.6	61.1
72.5°	99.8	99.8	96.6	103.0	83.7	64.4	54.7	45.1	35.4	29.0	25.7
75°	61.1	64.4	67.6	70.8	54.7	41.9	35.4	22.5	12.9	6.5	6.5
77.5°	41.9	45.1	48.3	51.6	45.1	38.6	29.0	16.1	3.2	0.0	0.0
80°	32.2	35.4	41.9	45.1	48.3	51.6	38.6	16.1	3.2	0.0	0.0
82.5°	35.4	38.6	48.3	45.1	45.1	45.1	35.4	16.1	3.2	0.0	0.0
85°	6.5	9.7	16.1	16.1	22.5	29.0	22.5	6.5	0.0	0.0	0.0
87.5°	0.0	0.0	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)