

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: P650959

Luminaire Tested: **GALN-SA6C-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29661.3 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

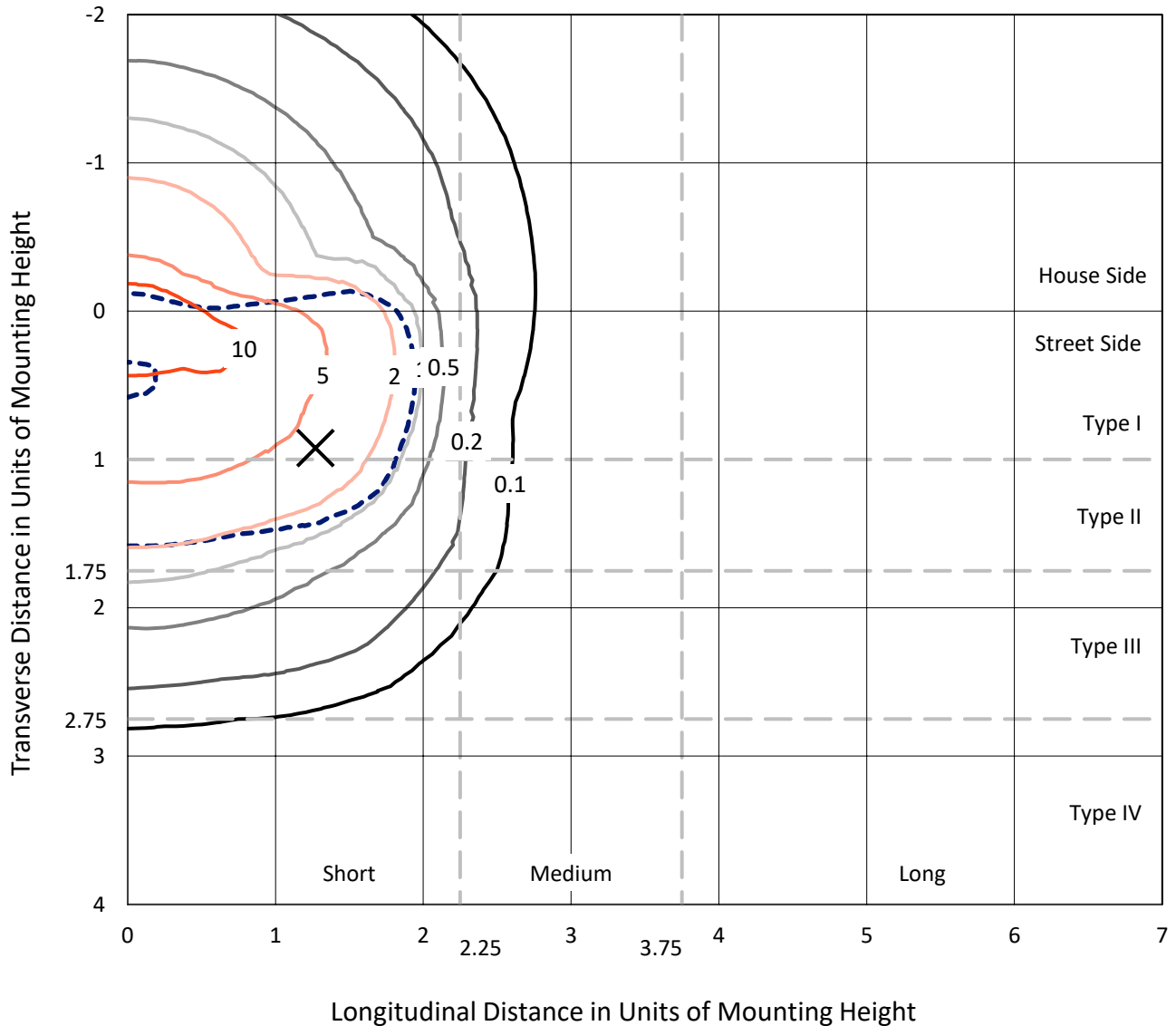
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650959
 CATALOG NUMBER: GALN-SA6C-840-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

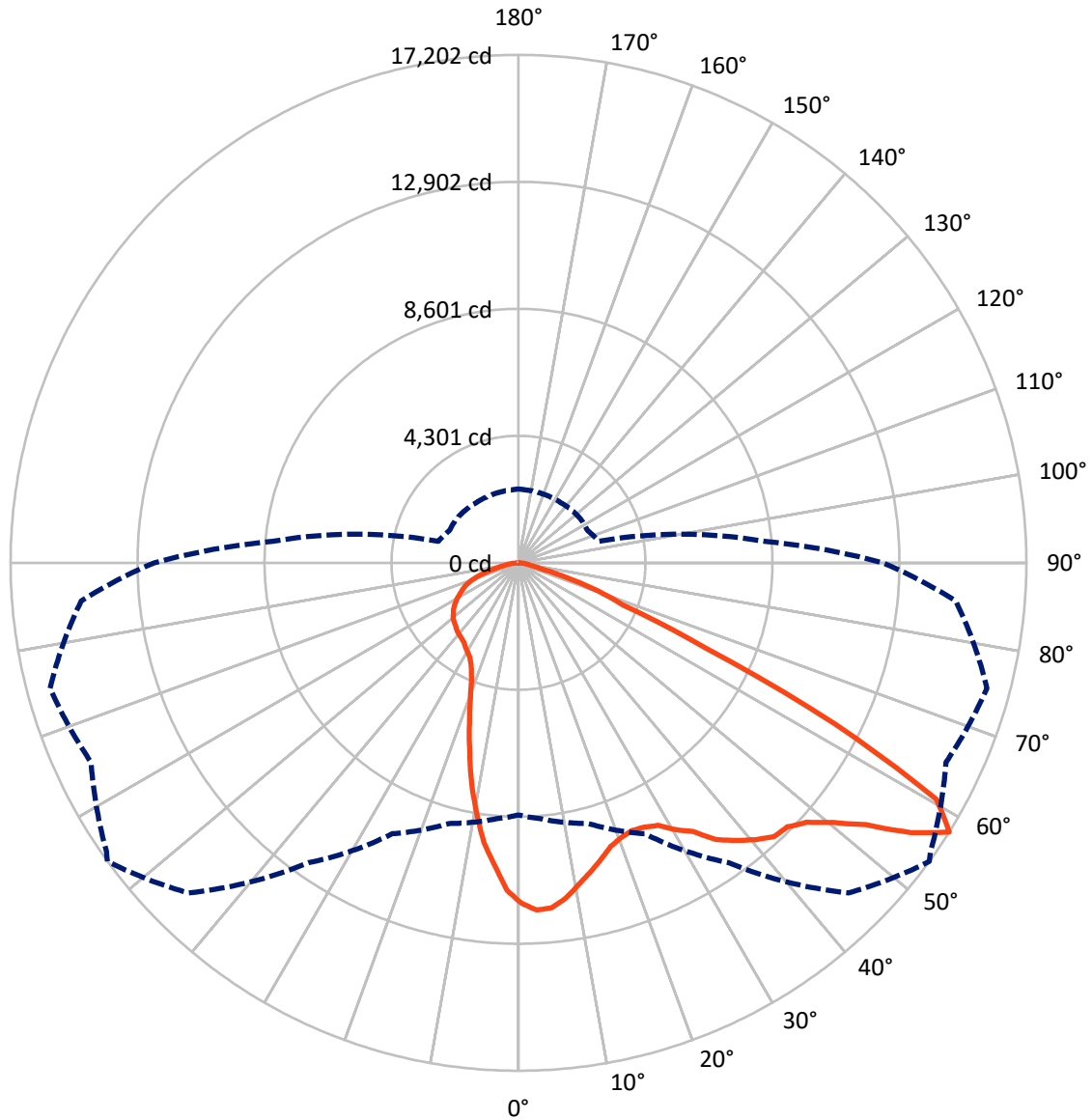
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

REPORT NUMBER: P650959
CATALOG NUMBER: GALN-SA6C-840-U-SL3-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P650959
 CATALOG NUMBER: GALN-SA6C-840-U-SL3-GRSWH

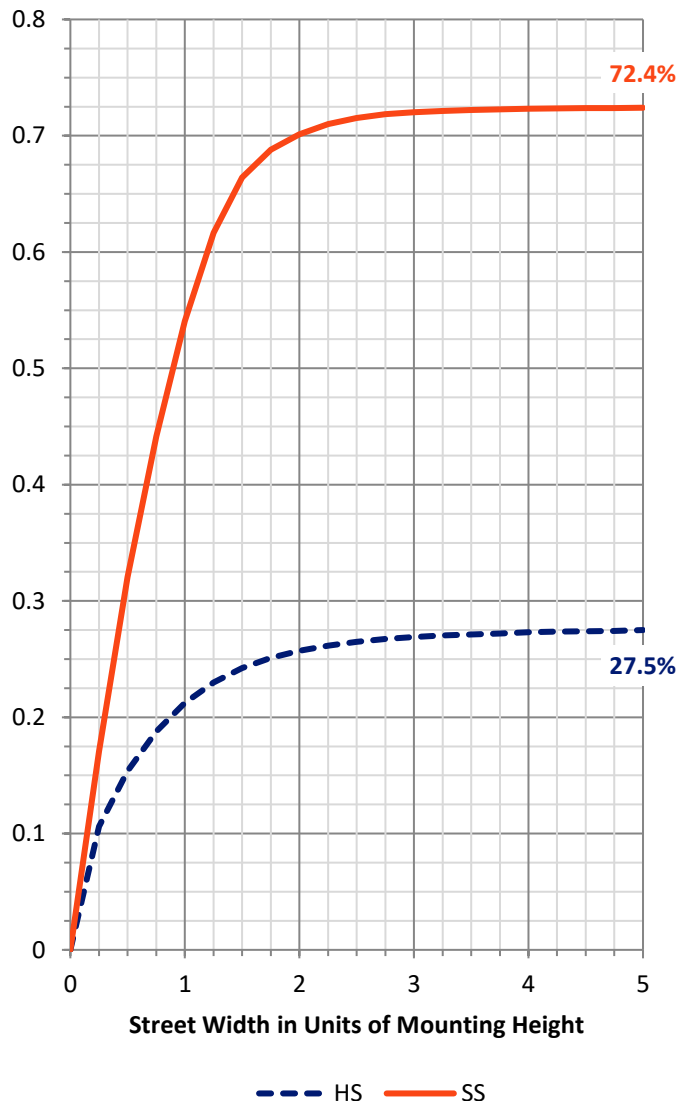
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8206.0	0.0	8206.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	21455.3	0.0	21455.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	29661.3	0.0	29661.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	994.3	3.4
10°-20°	2302.1	7.8
20°-30°	3234.5	10.9
30°-40°	4521.8	15.2
40°-50°	6121.6	20.6
50°-60°	7456.4	25.1
60°-70°	3883.6	13.1
70°-80°	995.1	3.4
80°-90°	151.8	0.5
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°	29661.3	100.0
0°-180°	29661.3	100.0

Coefficient of Utilization

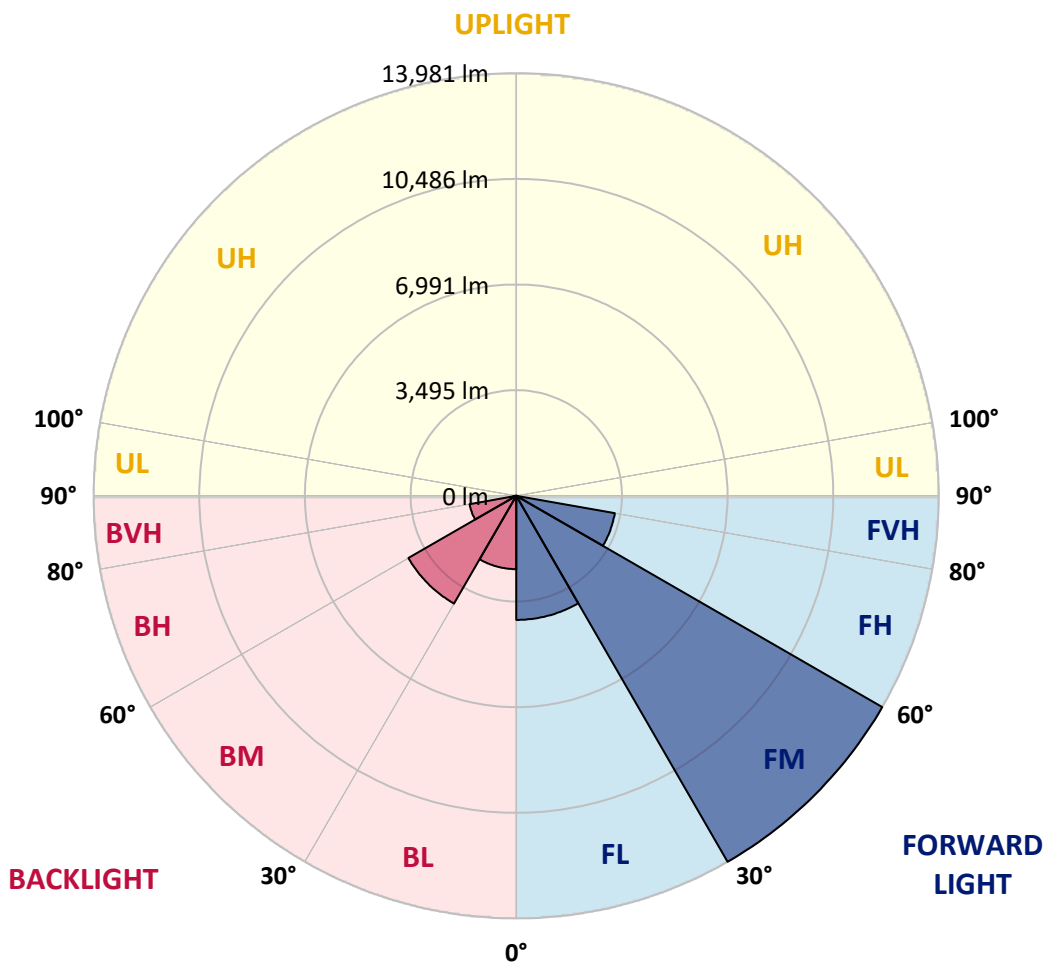


REPORT NUMBER: P650959
 CATALOG NUMBER: GALN-SA6C-840-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4105.5	13.8			
FM (30°-60°)	13981.4	47.1			
FH (60°-80°)	3311.0	11.2			G2/5000
FVH (80°-90°)	57.4	0.2			G1/100
BL (0°-30°)	2425.3	8.2	B3/2500		
BM (30°-60°)	4118.5	13.9	B3/5000		
BH (60°-80°)	1567.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	94.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





REPORT NUMBER: P650959

CATALOG NUMBER: GALN-SA6C-840-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11529.0	11529.0	11529.0	11529.0	11529.0	11529.0	11529.0	11529.0	11529.0	11529.0	11529.0
2.5°	11856.8	11811.1	11818.7	11879.7	11803.5	11773.0	11773.0	11624.3	11635.7	11532.8	11506.1
5°	11582.3	11475.6	11548.0	11639.5	11654.8	11685.3	11734.9	11696.7	11590.0	11479.4	11300.3
7.5°	10865.6	10960.9	10987.6	11052.4	11189.7	11315.5	11471.8	11365.0	11361.2	11250.6	11143.9
10°	10236.6	10179.4	10324.2	10419.6	10648.3	10858.0	11098.2	11086.7	11143.9	11018.1	10835.1
12.5°	9611.3	9565.5	9634.2	9851.5	10171.7	10476.8	10762.7	10655.9	10960.9	10938.0	10545.4
15°	8947.9	8982.2	9081.4	9283.5	9702.8	10068.8	10431.0	10434.8	10705.5	10797.0	10270.9
17.5°	8482.8	8444.6	8570.5	8871.7	9245.3	9683.7	10095.4	10179.4	10594.9	10648.3	10186.9
20°	8135.8	8189.2	8353.1	8505.7	8936.5	9466.4	9931.5	9962.1	10572.0	10716.9	10053.6
22.5°	8052.0	8021.5	8074.9	8322.7	8677.3	9252.9	9843.8	9958.2	10568.3	10694.1	9801.9
25°	7964.3	8063.4	8059.6	8307.4	8566.7	9081.4	9916.3	10042.1	10770.3	10812.2	9836.3
27.5°	8162.6	8151.1	8257.9	8277.0	8597.2	9127.1	10068.8	10164.1	11105.8	11071.5	9862.9
30°	8360.8	8303.6	8368.5	8593.3	8742.0	9390.2	10488.2	10480.5	11540.5	11517.6	9946.8
32.5°	8604.8	8578.1	8620.1	8818.3	9069.9	9740.9	10842.8	11067.6	11982.7	12127.6	10236.6
35°	8650.5	8761.1	8860.3	9127.1	9485.5	10309.0	11509.9	11696.7	12493.6	12947.2	10789.4
37.5°	8940.3	8982.2	9214.8	9687.6	10015.4	11067.6	11933.1	12051.3	12958.6	13473.3	11372.7
40°	9249.1	9298.7	9649.4	10145.1	10594.9	11563.3	12329.6	12367.7	13107.3	13877.5	11753.9
42.5°	9668.5	9714.2	10061.1	10682.6	11285.0	11986.5	12680.3	12722.3	13095.9	14342.6	12360.1
45°	10103.1	10213.7	10621.6	11326.9	11868.3	12482.1	12760.4	12932.0	13202.7	14758.1	12851.9
47.5°	10713.1	10816.0	11151.6	11841.6	12474.5	12916.8	13130.2	13298.0	13458.1	15120.3	13168.4
50°	11361.2	11380.3	11788.2	12413.5	12878.6	13408.6	13820.3	13877.5	13793.6	15539.7	13705.9
52.5°	11837.8	11898.8	12215.2	12825.2	13519.1	14171.0	14735.2	14796.3	14632.4	15696.0	13888.9
55°	11048.6	11014.3	11529.0	12341.0	13949.9	15307.1	16126.8	16172.6	15242.4	16180.3	14487.5
57.5°	8540.0	8703.9	9142.3	10122.2	12394.4	15810.4	17202.0	17038.1	15974.4	16424.2	14868.7
60°	6206.7	6168.7	6462.2	7117.9	9340.7	13625.9	16264.1	16431.9	15375.8	14803.9	12260.9
62.5°	5055.3	5002.0	5024.9	5047.8	6027.5	9043.3	12039.8	12036.1	11841.6	10640.7	8269.3
65°	4041.3	4167.1	4178.5	4350.1	4475.9	5402.3	6976.9	7350.5	6401.2	5249.8	3808.7
67.5°	3046.2	3000.4	3152.9	3763.0	3999.3	3900.2	3808.7	3850.6	2737.4	1974.8	1860.5
70°	1795.7	1776.6	1959.6	2623.0	3294.0	3099.6	2870.8	2874.6	1879.6	1380.1	1536.4
72.5°	983.6	979.8	1017.9	1330.5	1871.9	1944.4	1723.2	1776.6	1120.9	1117.1	1200.9
75°	549.0	537.6	526.1	587.1	674.8	712.9	728.2	735.8	770.1	861.6	895.9
77.5°	202.1	194.4	194.4	225.0	285.9	358.4	453.7	461.3	545.2	625.3	659.6
80°	68.6	76.3	102.9	141.0	190.7	255.4	308.8	316.5	385.1	438.4	449.9
82.5°	42.0	45.8	68.6	99.2	137.3	179.2	228.8	232.5	285.9	320.3	335.5
85°	19.1	22.9	38.1	61.0	87.7	118.2	122.0	122.0	118.2	122.0	114.4
87.5°	0.0	0.0	7.7	7.7	7.7	11.4	15.2	11.4	19.1	22.9	22.9
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: P650959

CATALOG NUMBER: GALN-SA6C-840-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11529.0	11529.0	11529.0	11529.0	11529.0	11529.0	11529.0	11529.0	11529.0	11529.0	11529.0
2.5°	11426.1	11384.1	11254.5	11140.1	11105.8	10953.3	10728.4	10755.0	10591.1	10667.3	10587.3
5°	11269.7	11128.7	10797.0	10655.9	10286.1	10118.3	10003.9	9718.0	9584.6	9557.9	9443.5
7.5°	10869.4	10781.7	10366.2	9984.9	9592.2	9256.7	8826.0	8532.4	8322.7	8265.5	8097.7
10°	10553.0	10358.5	9782.8	9203.4	8643.0	8059.6	7499.2	7060.7	6847.3	6599.4	6515.6
12.5°	10240.4	9946.8	9169.1	8425.6	7701.2	6965.4	6286.8	5753.0	5288.0	5177.4	5139.3
15°	10045.9	9535.0	8620.1	7724.1	6694.7	5734.0	5055.3	4704.6	4418.7	4300.5	4384.4
17.5°	9790.5	9195.7	8094.0	6900.6	5768.3	4883.8	4315.8	4098.4	3995.5	4006.9	3972.6
20°	9470.2	8875.5	7403.8	6153.3	4941.0	4235.7	3911.7	3831.6	3846.8	3873.5	3862.0
22.5°	9241.5	8486.6	6904.4	5390.9	4270.0	3877.3	3743.9	3686.7	3736.2	3759.1	3740.1
25°	9066.1	8154.9	6298.2	4716.1	3881.1	3675.3	3614.3	3610.4	3686.7	3717.2	3698.1
27.5°	8906.0	7846.1	5695.8	4201.4	3621.9	3518.9	3499.9	3545.7	3595.2	3625.7	3652.4
30°	8810.7	7609.7	5131.6	3770.5	3492.3	3442.7	3408.4	3450.3	3477.0	3507.5	3492.3
32.5°	8902.2	7442.0	4586.4	3526.6	3385.5	3335.9	3381.7	3355.0	3400.8	3427.4	3385.5
35°	9188.1	7293.3	4197.5	3397.0	3263.5	3282.6	3290.2	3278.7	3297.8	3274.9	3324.5
37.5°	9470.2	7239.9	3839.2	3286.4	3206.3	3206.3	3198.7	3175.8	3214.0	3206.3	3229.2
40°	9828.6	7274.2	3534.2	3168.2	3152.9	3145.3	3114.8	3111.0	3095.7	3099.6	3107.2
42.5°	10141.2	7350.5	3358.8	3091.9	3103.4	3118.6	3061.4	3015.7	3034.7	2996.7	2996.7
45°	10472.9	7419.1	3202.5	3038.5	3027.1	3023.3	2977.6	2950.9	2935.6	2939.5	2973.8
47.5°	10995.2	7518.2	3084.3	2966.1	2973.8	2916.6	2905.2	2870.8	2886.1	2908.9	2912.7
50°	11365.0	7727.9	2992.8	2882.3	2908.9	2870.8	2802.2	2786.9	2786.9	2825.1	2817.4
52.5°	11624.3	8021.5	2905.2	2790.8	2802.2	2771.7	2748.8	2714.5	2691.6	2745.0	2771.7
55°	12417.3	8509.5	2882.3	2714.5	2710.7	2680.2	2638.2	2603.9	2592.5	2600.1	2653.5
57.5°	12341.0	8357.0	2809.8	2581.0	2573.5	2531.5	2489.5	2478.1	2474.3	2482.0	2497.2
60°	10019.3	6172.4	2508.6	2428.6	2417.1	2409.5	2367.6	2321.8	2299.0	2321.8	2302.7
62.5°	6629.9	4132.8	2211.2	2245.6	2253.2	2234.1	2165.5	2119.7	2127.4	2154.1	2112.1
65°	3255.8	2428.6	2005.4	2096.9	2104.5	2051.1	1986.3	1933.0	1906.2	1929.1	1910.1
67.5°	1860.5	1856.7	1837.6	1933.0	1929.1	1875.8	1772.8	1727.1	1681.3	1688.9	1677.5
70°	1578.4	1608.8	1647.0	1704.2	1700.3	1639.4	1517.3	1483.0	1418.3	1410.6	1391.5
72.5°	1242.9	1296.2	1380.1	1422.0	1387.7	1311.5	1231.5	1174.3	1117.1	1082.8	1094.2
75°	922.7	998.9	1044.6	1071.3	1017.9	976.0	911.2	842.6	774.0	743.4	732.0
77.5°	671.0	693.9	735.8	754.9	720.6	678.6	640.5	571.9	507.0	465.2	453.7
80°	468.9	484.2	514.7	514.7	514.7	495.6	446.1	377.4	335.5	297.4	289.7
82.5°	327.9	343.1	373.7	358.4	354.6	331.7	301.2	247.8	202.1	175.3	167.8
85°	114.4	125.8	152.5	183.0	194.4	190.7	171.6	137.3	106.7	87.7	80.1
87.5°	26.7	26.7	30.5	26.7	26.7	30.5	26.7	26.7	26.7	19.1	15.2
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)