

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: P532899

Luminaire Tested: **GALN-SA8B-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26032 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

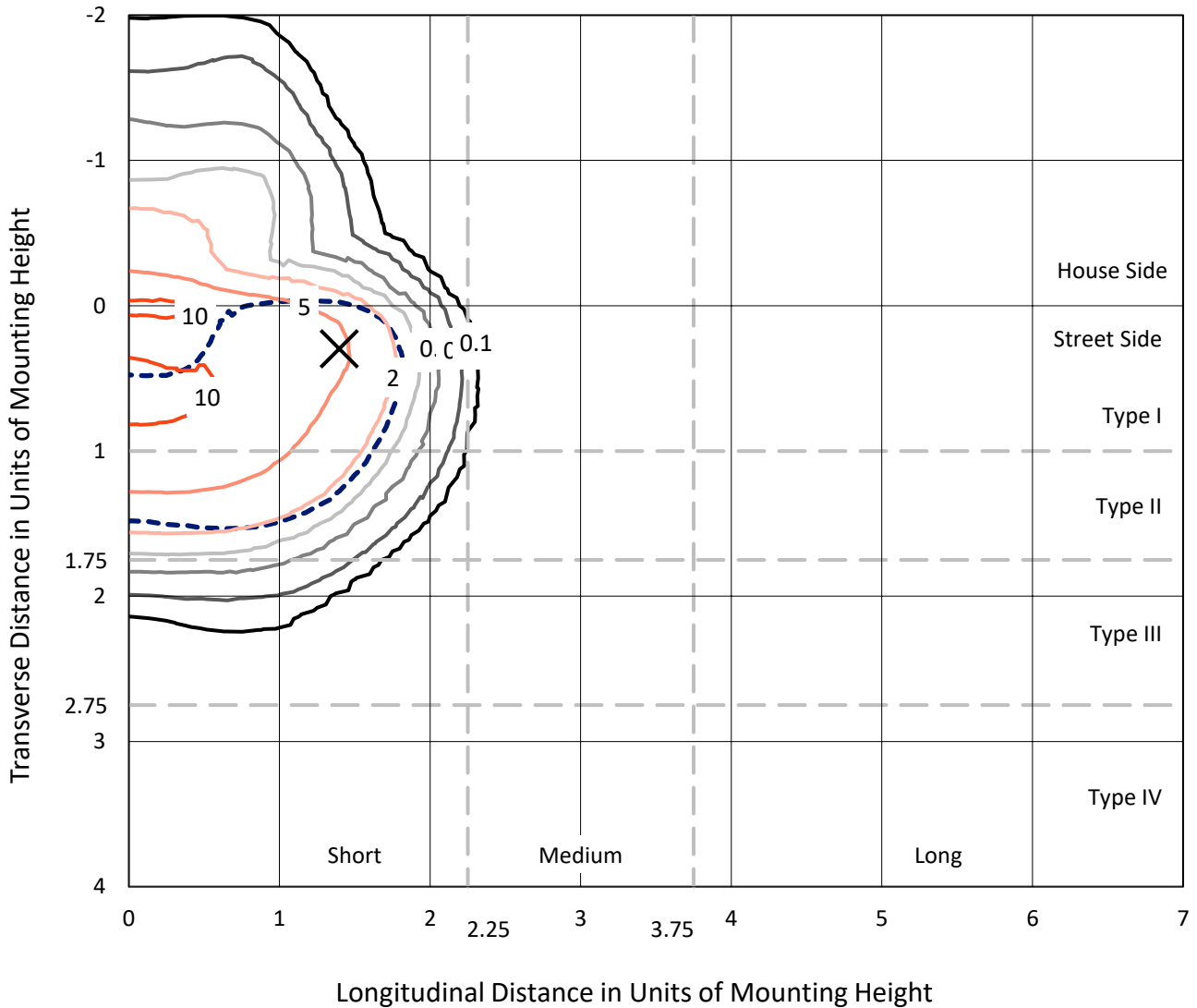
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532899
 CATALOG NUMBER: GALN-SA8B-735-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

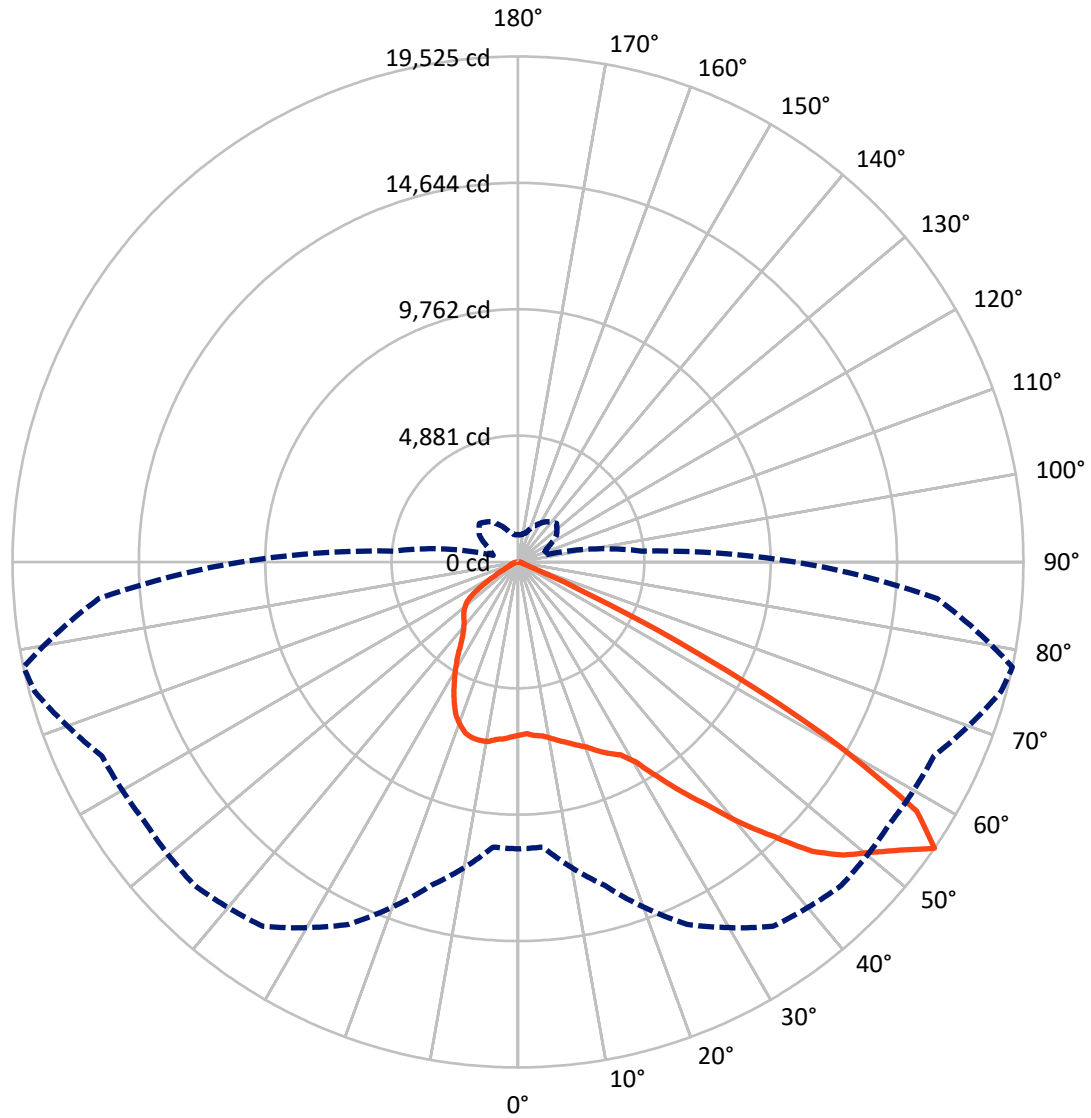
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

REPORT NUMBER: P532899
CATALOG NUMBER: GALN-SA8B-735-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P532899

CATALOG NUMBER: GALN-SA8B-735-U-T3R-GRSBK

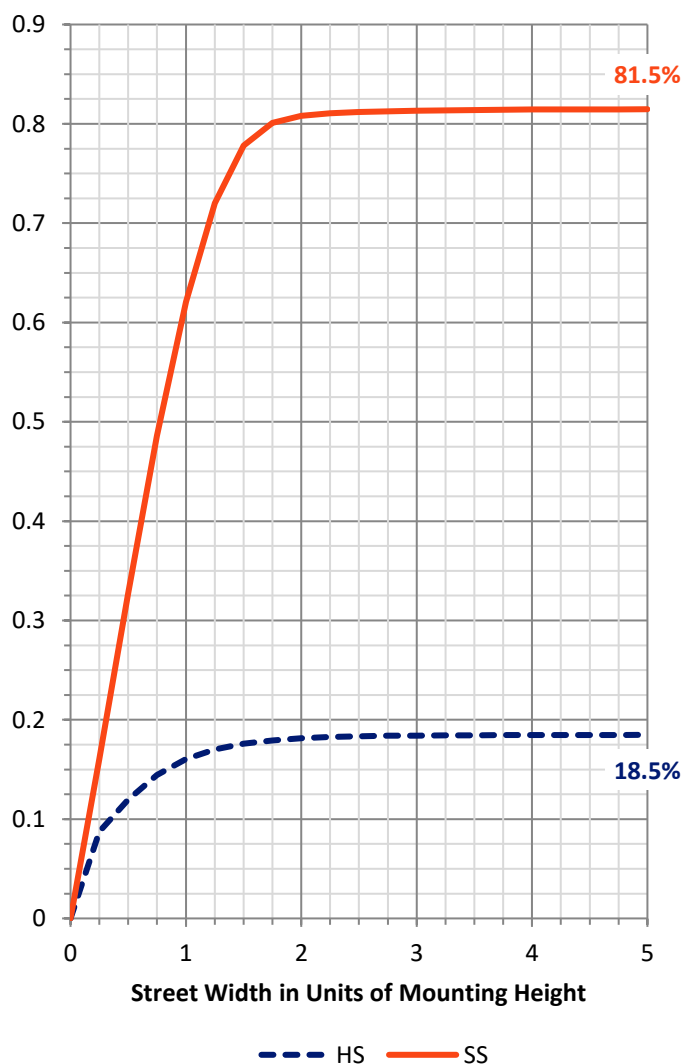
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4835.2	0.0	4835.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	21196.8	0.0	21196.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	26032.0	0.0	26032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.8	2.3
10°-20°	1579.4	6.1
20°-30°	2768.4	10.6
30°-40°	4564.8	17.5
40°-50°	6642.3	25.5
50°-60°	7526.5	28.9
60°-70°	2151.9	8.3
70°-80°	167.1	0.6
80°-90°	34.8	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°	26032.0	100.0
0°-180°	26032.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532899

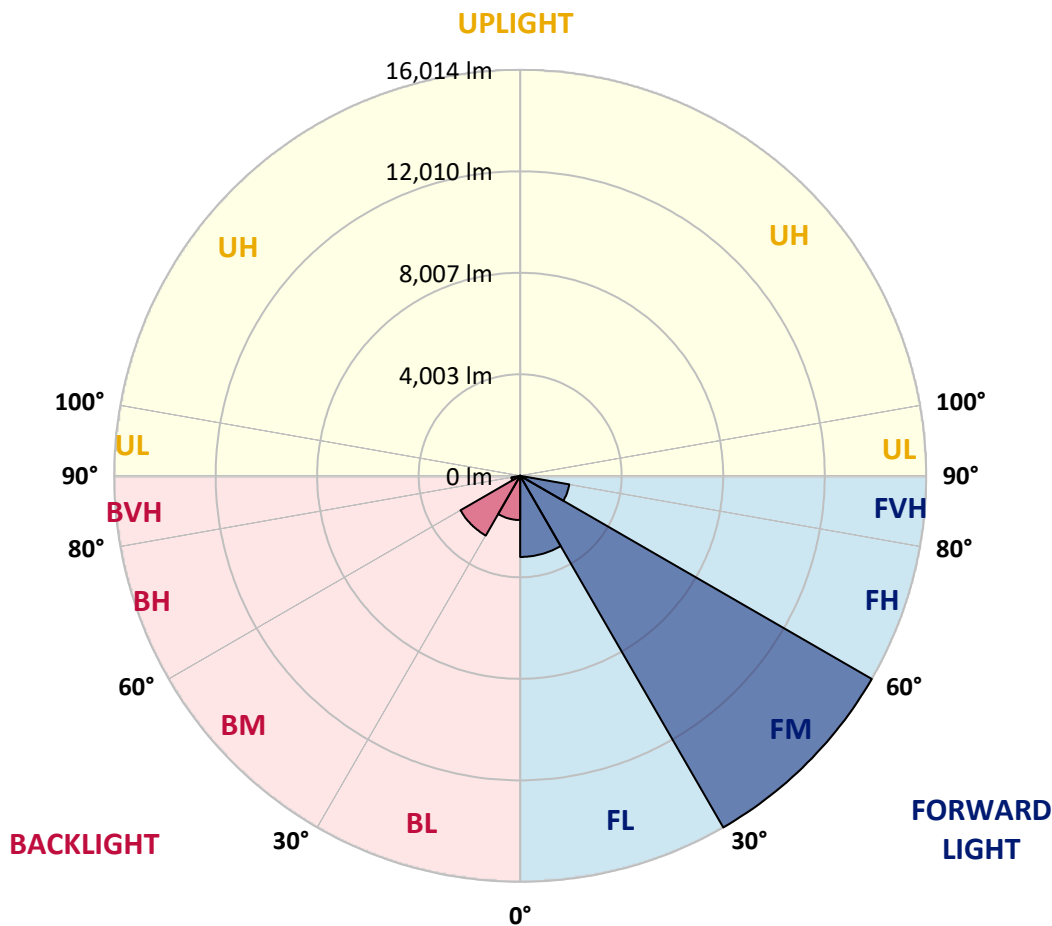
CATALOG NUMBER: GALN-SA8B-735-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3200.1	12.3			
FM (30°-60°)	16013.7	61.5			
FH (60°-80°)	1966.1	7.6			G2/5000
FVH (80°-90°)	16.9	0.1			G1/100
BL (0°-30°)	1744.5	6.7	B3/2500		
BM (30°-60°)	2719.9	10.4	B3/5000		
BH (60°-80°)	352.9	1.4	B1/500		G1/500
BVH (80°-90°)	17.8	0.1			G1/100
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: P532899

CATALOG NUMBER: GALN-SA8B-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6692.8	6692.8	6692.8	6692.8	6692.8	6692.8	6692.8	6692.8	6692.8	6692.8	6692.8
2.5°	6292.6	6353.1	6362.4	6436.9	6432.2	6557.9	6595.1	6599.8	6683.5	6641.6	6748.7
5°	6115.7	6083.1	6069.2	6199.5	6236.7	6348.4	6441.5	6497.4	6669.6	6730.1	6841.8
7.5°	5957.5	5957.5	5966.8	6083.1	6069.2	6213.5	6311.2	6483.4	6734.7	6785.9	6920.9
10°	5803.9	5748.0	5817.8	5938.9	6041.2	6106.4	6311.2	6474.1	6767.3	6916.2	7102.4
12.5°	5724.8	5752.7	5762.0	5850.4	5962.1	6157.6	6269.3	6539.3	7000.0	7088.5	7288.6
15°	6222.8	6166.9	6031.9	5952.8	6045.9	6139.0	6418.2	6692.8	7121.0	7246.7	7470.1
17.5°	6799.9	6753.3	6641.6	6427.5	6218.1	6390.3	6609.1	6860.4	7251.4	7437.5	7768.0
20°	7553.9	7479.4	7367.7	6948.8	6767.3	6581.1	6813.9	7111.7	7465.5	7633.0	7972.8
22.5°	8452.2	8452.2	8200.8	7693.5	7316.5	7139.7	7237.4	7409.6	7702.8	7930.9	8266.0
25°	9387.7	9359.7	9131.7	8605.7	7968.1	7758.7	7870.4	7991.4	8070.5	8196.2	8419.6
27.5°	10458.1	10295.2	10006.7	9424.9	8861.7	8456.8	8577.8	8470.8	8373.0	8438.2	8759.3
30°	11184.2	11286.6	10918.9	10360.4	9829.8	9378.4	9401.6	9308.5	8861.7	8954.8	9145.6
32.5°	11938.2	12003.4	11798.6	11491.4	10960.8	10434.9	10244.1	10164.9	9829.8	9871.7	9685.5
35°	12566.5	12692.2	12510.7	12375.7	12222.1	11798.6	11272.6	11528.6	10988.7	10886.3	10402.3
37.5°	13143.7	13106.4	13320.5	13180.9	13148.3	12850.4	12273.3	12324.5	11961.5	11938.2	11379.7
40°	13660.3	13669.6	13962.8	14028.0	13897.7	13367.1	12529.3	12934.2	13227.4	13255.4	12538.6
42.5°	14088.5	14214.1	14465.5	14991.4	14795.9	13911.6	12794.6	13236.7	14325.8	14498.1	13637.0
45°	14460.8	14716.8	15028.6	15498.7	15387.0	14684.2	13455.5	13860.4	15498.7	15950.2	14670.3
47.5°	14484.1	14819.2	15159.0	15857.1	15996.7	15098.5	14139.7	14847.1	16429.6	16918.3	15424.3
50°	14391.0	14567.9	15247.4	16006.0	16322.5	15773.3	15098.5	15675.6	17332.5	17639.7	15805.9
52.5°	13287.9	13422.9	14786.6	16145.7	16909.0	16536.6	16369.1	16829.8	18254.1	18482.1	16164.3
55°	11077.2	11053.9	12929.6	15442.9	17178.9	17667.6	17565.2	17728.1	19319.9	19524.7	16252.7
57.5°	7577.2	8000.7	9620.4	12859.8	15526.6	17402.3	17509.4	17239.4	18077.2	18156.3	14167.6
60°	4086.5	4263.3	5566.5	8582.5	11821.8	14181.6	14460.8	13972.1	13907.0	13683.6	10113.7
62.5°	1624.3	1712.8	2452.8	4249.3	6441.5	8619.7	9220.1	9020.0	8591.8	8005.3	5236.1
65°	772.6	828.5	1219.4	1987.4	2857.7	3593.1	4193.5	4379.7	3230.1	2908.9	1726.7
67.5°	525.9	567.8	889.0	1135.6	1019.3	1065.8	1387.0	1289.2	758.6	646.9	479.4
70°	400.3	428.2	712.1	772.6	456.1	321.1	358.4	335.1	311.8	316.5	311.8
72.5°	283.9	307.2	521.3	456.1	200.1	148.9	190.8	228.1	228.1	228.1	223.4
75°	172.2	195.5	302.5	176.9	79.1	79.1	121.0	153.6	162.9	167.6	158.2
77.5°	88.4	111.7	102.4	51.2	51.2	60.5	88.4	107.0	116.4	116.4	111.7
80°	18.6	18.6	18.6	27.9	51.2	65.2	88.4	97.7	111.7	111.7	102.4
82.5°	0.0	4.7	14.0	27.9	46.5	60.5	83.8	97.7	111.7	116.4	107.0
85°	0.0	4.7	9.3	18.6	32.6	37.2	32.6	27.9	27.9	27.9	27.9
87.5°	0.0	0.0	4.7	4.7	4.7	9.3	9.3	9.3	9.3	9.3	9.3
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: P532899

CATALOG NUMBER: GALN-SA8B-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6692.8	6692.8	6692.8	6692.8	6692.8	6692.8	6692.8	6692.8	6692.8	6692.8	6692.8
2.5°	6758.0	6772.0	6748.7	6744.0	6725.4	6781.3	6646.3	6613.7	6697.5	6618.4	6637.0
5°	6846.4	6879.0	6837.1	6767.3	6664.9	6506.7	6371.7	6194.8	6111.1	6050.6	6041.2
7.5°	6911.6	6934.9	6893.0	6669.6	6362.4	5962.1	5664.2	5445.5	5273.3	5222.1	5138.3
10°	7176.9	7181.5	6972.1	6478.7	5878.3	5352.4	4896.3	4561.2	4389.0	4281.9	4235.4
12.5°	7353.7	7344.4	6920.9	6101.8	5301.2	4603.1	4081.8	3676.9	3518.6	3467.4	3434.9
15°	7577.2	7526.0	6799.9	5715.4	4556.5	3802.5	3332.5	3053.2	3039.2	3006.7	3039.2
17.5°	7754.0	7609.7	6623.0	5012.7	3844.4	3132.3	2825.1	2843.8	2881.0	2913.6	2918.2
20°	8042.6	7744.7	6218.1	4398.3	3183.5	2685.5	2680.9	2764.6	2857.7	2895.0	2932.2
22.5°	8261.3	7800.6	5785.3	3742.0	2643.6	2504.0	2583.1	2708.8	2778.6	2815.8	2871.7
25°	8340.5	7647.0	5208.1	3085.8	2383.0	2420.2	2541.2	2625.0	2713.4	2755.3	2732.1
27.5°	8419.6	7567.8	4519.3	2541.2	2243.4	2364.4	2466.8	2550.5	2578.5	2634.3	2671.6
30°	8610.4	7293.2	3900.3	2196.8	2173.5	2327.1	2401.6	2429.5	2504.0	2536.6	2536.6
32.5°	8764.0	7186.2	3244.0	2033.9	2164.2	2345.8	2355.1	2355.1	2364.4	2341.1	2331.8
35°	9080.5	6818.5	2657.6	1936.2	2159.6	2350.4	2373.7	2294.6	2080.5	1996.7	1973.4
37.5°	9471.4	6581.1	2224.7	1912.9	2192.2	2406.3	2443.5	2145.6	1866.4	1731.4	1708.1
40°	9946.2	6413.6	1940.8	1903.6	2266.6	2536.6	2424.9	2029.3	1666.2	1470.7	1461.4
42.5°	10500.0	6260.0	1750.0	1898.9	2359.7	2671.6	2406.3	1931.5	1461.4	1331.1	1349.7
45°	10942.2	6176.2	1619.7	1866.4	2392.3	2750.7	2420.2	1759.3	1377.7	1293.9	1303.2
47.5°	11286.6	5999.4	1512.6	1810.5	2387.6	2778.6	2294.6	1689.5	1335.8	1359.0	1382.3
50°	11295.9	5762.0	1377.7	1689.5	2317.8	2727.4	2150.3	1624.3	1326.5	1424.2	1470.7
52.5°	11170.3	5426.9	1233.4	1517.3	2154.9	2550.5	2020.0	1596.4	1284.6	1275.3	1331.1
55°	10723.4	4798.6	991.4	1228.7	1819.8	2103.7	1903.6	1545.2	1158.9	1051.9	1061.2
57.5°	8666.3	3439.5	730.7	879.7	1289.2	1540.6	1717.4	1521.9	1042.6	893.6	898.3
60°	5366.4	1950.1	535.2	600.4	795.9	935.5	1391.6	1414.9	930.9	754.0	744.7
62.5°	2755.3	963.4	414.2	423.5	488.7	549.2	954.1	1186.8	842.4	716.8	716.8
65°	921.5	474.7	363.0	325.8	325.8	339.8	577.1	823.8	712.1	600.4	600.4
67.5°	395.6	353.7	316.5	283.9	260.6	246.7	325.8	479.4	530.6	456.1	437.5
70°	307.2	297.9	274.6	237.4	204.8	186.2	190.8	246.7	302.5	293.2	283.9
72.5°	228.1	228.1	218.8	186.2	158.2	135.0	125.7	130.3	144.3	148.9	153.6
75°	158.2	162.9	162.9	144.3	116.4	97.7	83.8	69.8	55.9	46.5	41.9
77.5°	107.0	111.7	121.0	107.0	88.4	65.2	51.2	37.2	23.3	9.3	9.3
80°	93.1	107.0	116.4	107.0	93.1	69.8	51.2	27.9	14.0	0.0	0.0
82.5°	97.7	107.0	121.0	102.4	88.4	65.2	51.2	32.6	14.0	4.7	0.0
85°	23.3	23.3	27.9	32.6	41.9	46.5	37.2	23.3	14.0	4.7	0.0
87.5°	9.3	9.3	9.3	9.3	9.3	4.7	4.7	4.7	4.7	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)