

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: P652361

Luminaire Tested: **GALN-SA4B-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652361
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-SA4B-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA 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: 14821.8 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

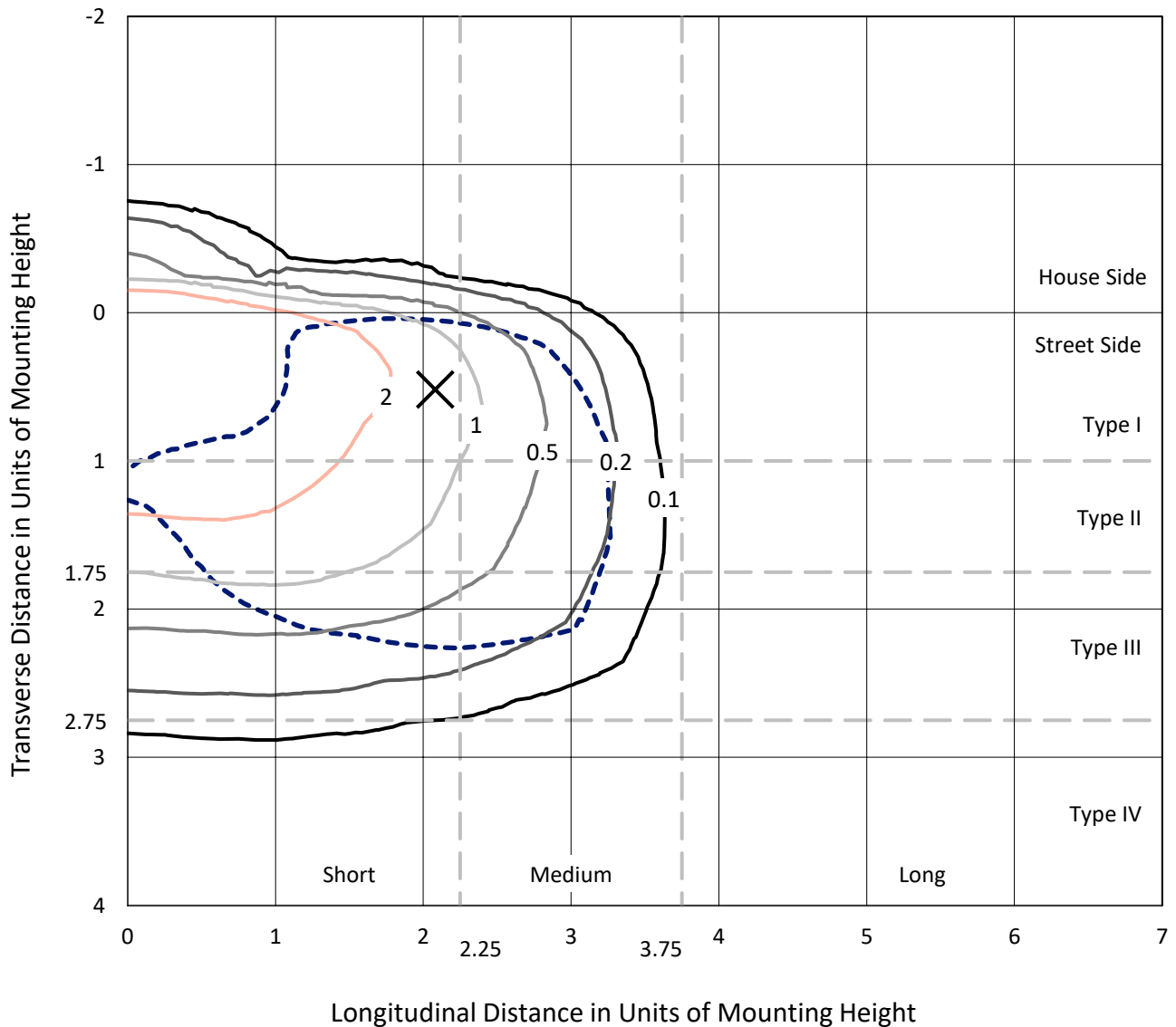
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652361
 CATALOG NUMBER: GALN-SA4B-840-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

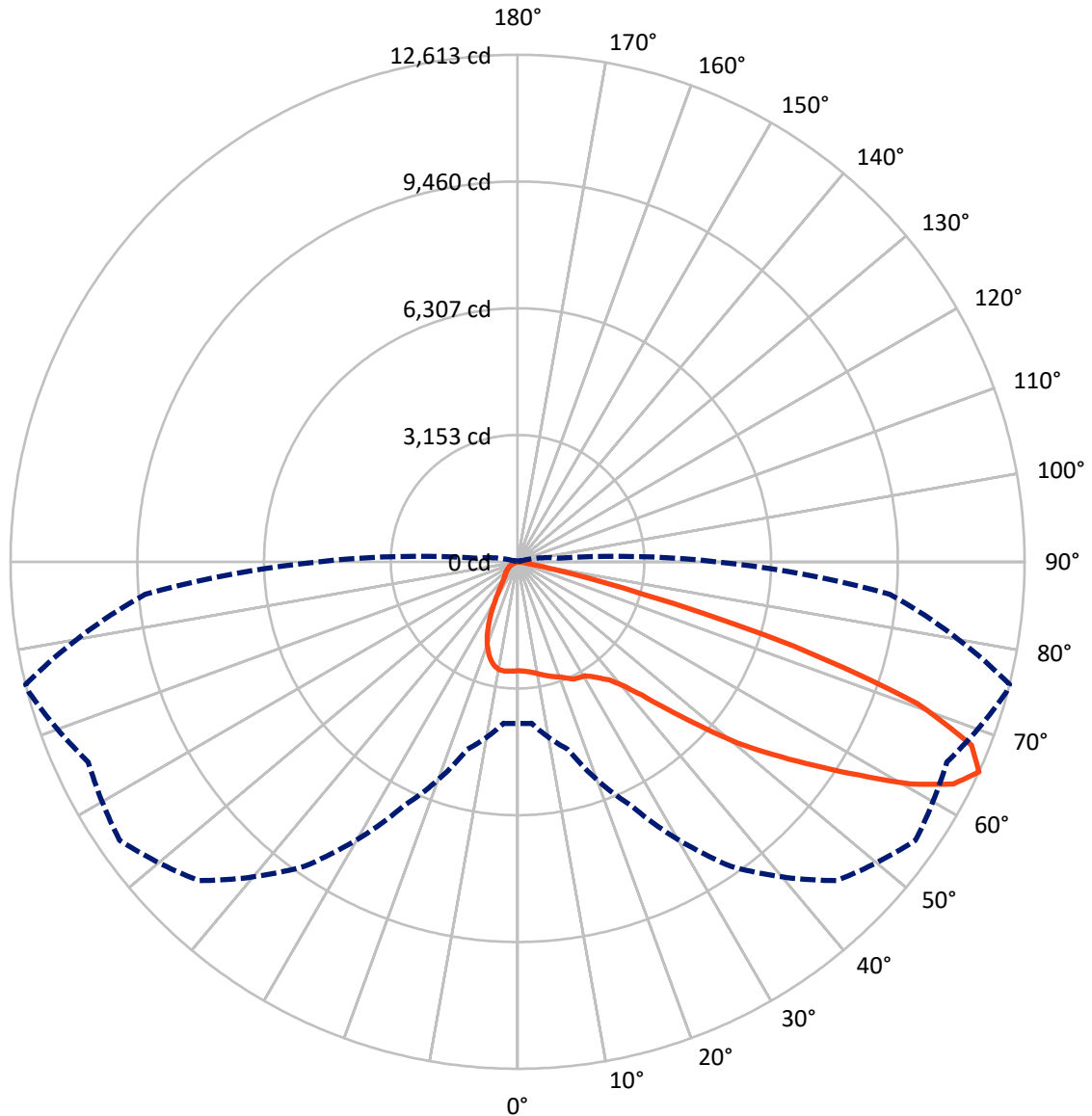
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

REPORT NUMBER: P652361
CATALOG NUMBER: GALN-SA4B-840-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652361
 CATALOG NUMBER: GALN-SA4B-840-U-T3R-HSS

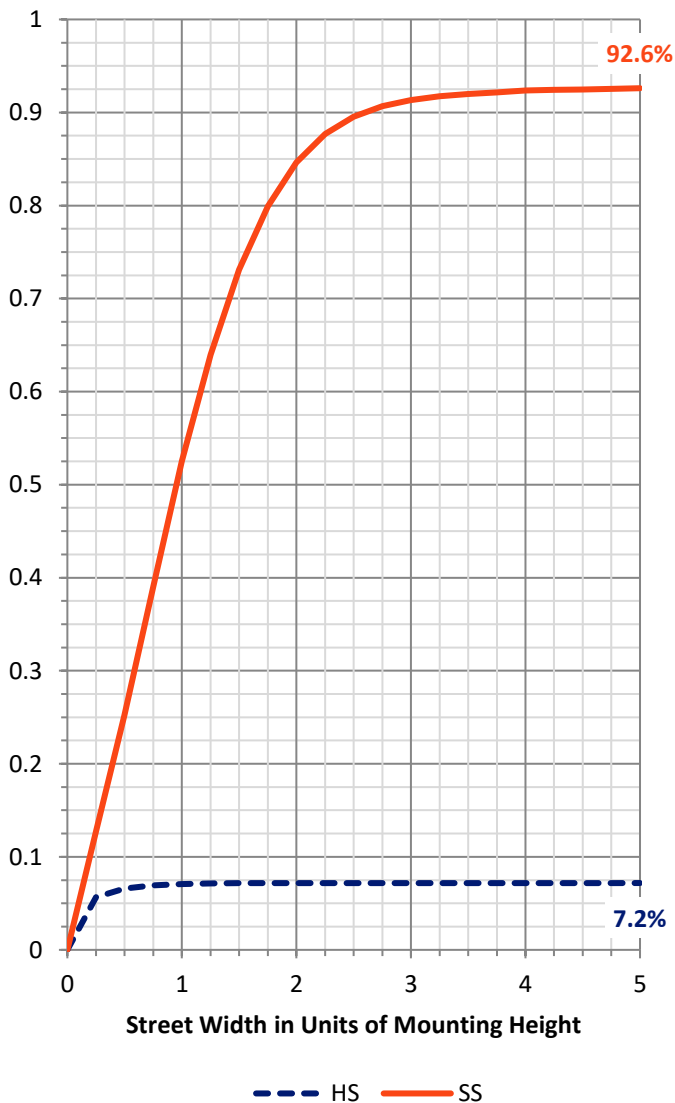
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1070.4	0.0	1070.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13751.3	0.0	13751.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	14821.8	0.0	14821.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	1.5
10°-20°	497.3	3.4
20°-30°	801.4	5.4
30°-40°	1393.4	9.4
40°-50°	2302.5	15.5
50°-60°	3556.9	24.0
60°-70°	4343.5	29.3
70°-80°	1648.5	11.1
80°-90°	55.0	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°	14821.8	100.0
0°-180°	14821.8	100.0

Coefficient of Utilization



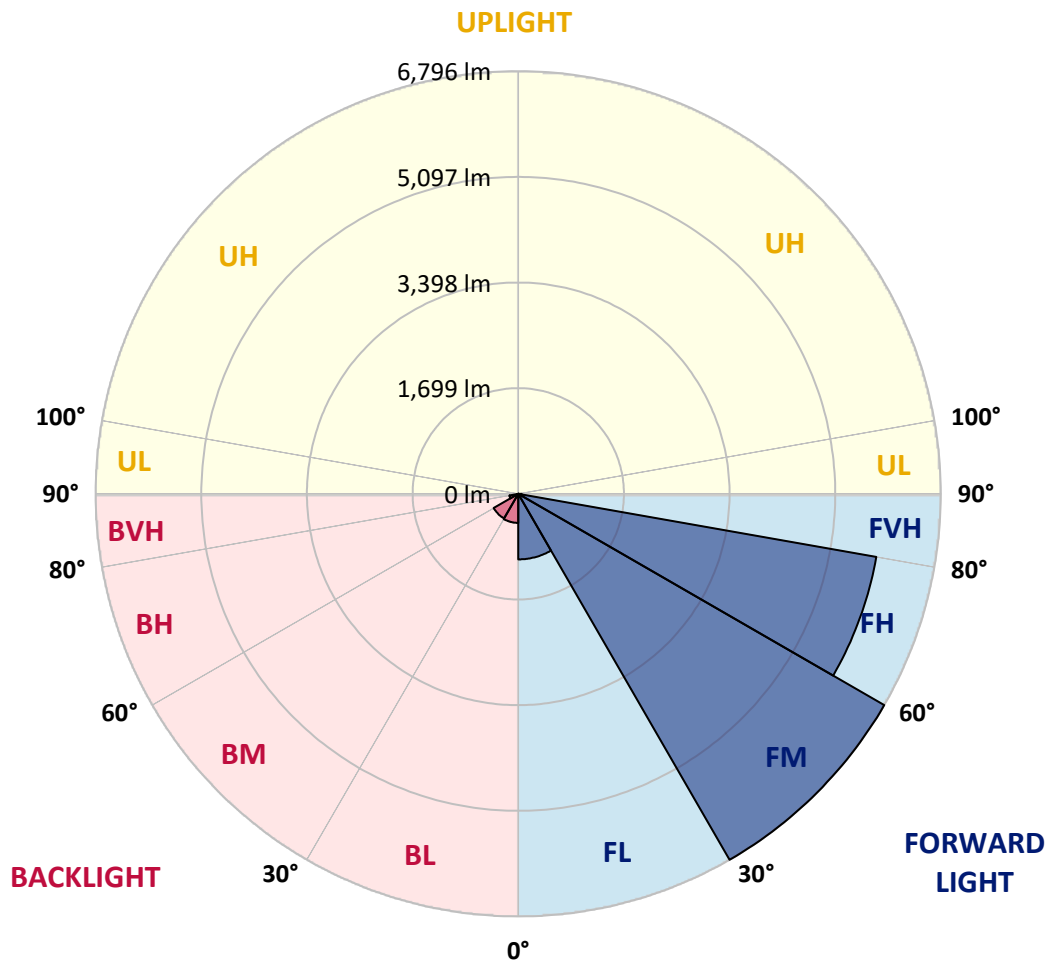
REPORT NUMBER: P652361
 CATALOG NUMBER: GALN-SA4B-840-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1054.4	7.1			
FM (30°-60°)	6796.0	45.9			
FH (60°-80°)	5846.7	39.4			G3/7500
FVH (80°-90°)	54.3	0.4			G1/100
BL (0°-30°)	467.6	3.2	B1/500		
BM (30°-60°)	456.8	3.1	B1/1000		
BH (60°-80°)	145.2	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





REPORT NUMBER: P652361
 CATALOG NUMBER: GALN-SA4B-840-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4
2.5°	2591.0	2592.0	2598.4	2614.1	2638.1	2658.0	2674.7	2702.0	2720.8	2722.9	2729.1
5°	2412.1	2399.5	2412.1	2452.9	2489.5	2545.0	2613.0	2681.0	2741.7	2745.9	2775.2
7.5°	2211.2	2221.7	2241.5	2283.4	2352.4	2437.2	2535.5	2657.0	2772.1	2782.5	2840.1
10°	2007.1	2030.2	2062.6	2126.4	2222.7	2332.6	2466.5	2640.2	2820.2	2834.8	2934.2
12.5°	1818.7	1829.2	1869.0	1954.8	2074.1	2229.0	2414.2	2630.8	2873.6	2891.4	3034.7
15°	1674.3	1688.0	1722.5	1799.9	1932.8	2131.6	2371.3	2627.6	2925.9	2951.0	3135.2
17.5°	1647.1	1655.5	1670.1	1722.5	1838.6	2054.2	2332.6	2626.6	2976.1	3006.5	3228.3
20°	1759.1	1751.8	1737.1	1731.9	1795.7	1994.5	2304.3	2635.0	3024.2	3058.8	3326.7
22.5°	2039.5	2048.9	1963.1	1861.6	1840.7	1985.1	2300.1	2674.7	3100.7	3141.5	3436.6
25°	2635.0	2562.8	2428.8	2186.1	2002.9	2042.7	2347.2	2768.9	3189.6	3234.6	3536.0
27.5°	3293.2	3271.2	3063.0	2663.3	2322.1	2164.1	2430.9	2841.2	3218.9	3264.9	3592.5
30°	3939.9	3966.1	3727.5	3285.9	2785.6	2389.0	2509.4	2868.3	3245.1	3293.2	3664.7
32.5°	4539.5	4570.9	4361.7	3924.2	3332.0	2778.3	2644.4	2974.0	3354.9	3404.1	3785.0
35°	5011.5	5015.6	4857.7	4509.2	3928.4	3251.4	2936.4	3159.3	3503.5	3561.1	3912.8
37.5°	5444.7	5438.4	5253.2	4952.9	4425.5	3721.2	3303.7	3372.7	3673.1	3732.7	4096.9
40°	5766.0	5770.2	5710.6	5428.0	4889.1	4155.5	3594.6	3572.7	3957.7	4050.8	4364.8
42.5°	5980.5	6019.2	6048.6	5905.2	5472.0	4690.3	4041.4	4000.6	4451.7	4529.0	4743.6
45°	6154.3	6223.3	6369.8	6362.5	6031.8	5346.3	4654.7	4570.9	5151.7	5234.4	5226.1
47.5°	6280.8	6351.0	6593.8	6740.3	6558.2	5982.6	5425.9	5353.7	5987.8	6077.8	5758.7
50°	6345.8	6429.4	6739.2	7022.8	6969.5	6595.8	6304.9	6309.1	6997.7	7084.5	6376.0
52.5°	6194.0	6302.8	6816.6	7327.3	7430.9	7182.9	7128.5	7266.6	7896.6	7970.9	6933.9
55°	5709.5	5846.5	6710.9	7586.8	7965.6	7875.6	8064.0	8274.3	8879.2	8927.4	7506.3
57.5°	5402.8	5548.3	6399.1	7807.7	8608.1	8746.3	9044.5	9198.4	9893.3	10015.6	8163.4
60°	5144.4	5258.4	6142.7	7854.7	9261.2	9811.6	10101.5	10260.5	11144.8	11224.3	8886.5
62.5°	4714.3	4845.1	5709.5	7526.1	9589.8	10664.5	11265.1	11194.0	12112.8	12168.3	9330.2
65°	4022.6	4034.1	4830.5	6700.5	9250.7	11218.0	12082.4	11784.2	12575.3	12613.0	9295.7
67.5°	3002.3	3113.2	3716.0	5266.8	7813.9	10745.0	12347.1	11799.9	12283.3	12178.7	8557.9
70°	1933.9	2018.7	2518.8	3652.1	5634.1	8967.1	11469.2	10990.9	10780.6	10548.3	7005.0
72.5°	892.6	1001.5	1496.5	2086.6	3341.4	6387.6	9310.4	8929.4	7759.5	7186.0	4452.7
75°	389.3	416.5	738.8	1100.9	1566.5	3378.0	6138.5	5543.1	3504.6	3201.1	1782.1
77.5°	237.6	255.3	387.2	590.2	615.4	1287.2	3306.8	2418.4	1083.1	955.4	483.5
80°	161.1	181.1	281.5	308.7	210.3	358.9	1241.1	645.6	218.7	209.3	103.6
82.5°	78.5	99.4	208.2	172.7	91.1	115.1	361.0	138.1	63.8	59.6	36.7
85°	11.5	19.8	117.2	113.0	40.8	27.2	63.8	34.6	22.0	20.9	16.7
87.5°	0.0	0.0	39.8	17.8	4.2	4.2	7.3	7.3	8.4	7.3	8.4
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: P652361

CATALOG NUMBER: GALN-SA4B-840-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4
2.5°	2732.3	2737.5	2717.7	2689.4	2659.1	2628.7	2585.8	2547.1	2524.1	2537.6	2504.2
5°	2781.5	2777.3	2725.0	2639.1	2525.1	2388.0	2251.9	2135.8	2098.1	2041.6	2035.4
7.5°	2849.5	2838.0	2727.1	2530.3	2272.9	2015.5	1764.3	1598.0	1502.7	1422.1	1424.2
10°	2944.8	2911.3	2703.0	2338.8	1915.0	1526.8	1206.6	986.8	891.5	861.3	837.1
12.5°	3043.1	2978.2	2636.0	2080.4	1491.2	1043.3	733.6	599.6	541.0	522.2	520.1
15°	3131.0	3028.4	2518.8	1769.5	1084.1	666.6	500.2	456.2	448.9	450.0	448.9
17.5°	3217.8	3068.2	2356.7	1440.0	736.7	478.2	430.1	419.7	422.8	427.0	425.9
20°	3290.1	3076.6	2149.4	1098.8	521.2	419.7	403.9	401.8	404.9	408.1	408.1
22.5°	3368.5	3082.9	1903.5	760.8	425.9	390.3	382.0	382.0	386.1	390.3	391.4
25°	3427.2	3048.4	1609.4	546.2	375.7	362.1	357.9	358.9	363.1	365.2	364.2
27.5°	3436.6	2951.0	1297.6	418.6	341.1	327.6	323.4	327.6	322.3	325.5	323.4
30°	3444.9	2827.5	981.6	352.6	309.7	288.8	282.6	276.3	272.1	266.8	265.8
32.5°	3471.1	2682.1	716.8	317.1	280.5	257.4	242.8	225.0	211.3	207.2	206.1
35°	3482.6	2507.4	526.4	288.8	254.3	229.2	203.0	177.9	158.0	150.7	155.9
37.5°	3526.6	2337.8	408.1	267.9	231.3	199.9	166.3	135.0	116.1	111.9	114.0
40°	3616.6	2153.6	342.2	250.1	211.3	172.7	131.9	101.5	89.0	84.8	83.7
42.5°	3761.0	1970.5	304.5	233.4	191.5	145.5	103.6	79.6	69.0	65.9	65.9
45°	3936.8	1794.7	278.4	215.5	170.6	117.2	81.7	63.8	57.5	55.4	55.4
47.5°	4168.1	1640.9	256.4	197.8	147.5	93.1	65.9	55.4	51.3	52.3	53.4
50°	4402.5	1526.8	232.3	177.9	121.4	76.4	56.5	49.2	48.1	49.2	49.2
52.5°	4579.3	1459.8	199.9	150.7	95.2	63.8	50.2	46.0	45.0	42.9	42.9
55°	4817.9	1445.2	159.0	122.4	75.4	53.4	45.0	41.9	38.7	36.7	35.6
57.5°	5124.5	1461.9	122.4	95.2	58.6	44.0	39.8	34.6	30.4	26.2	26.2
60°	5315.0	1424.2	95.2	73.3	42.9	35.6	30.4	25.1	19.8	16.7	15.7
62.5°	5254.3	1265.2	75.4	54.4	30.4	26.2	19.8	16.7	11.5	8.4	7.3
65°	4941.4	1021.3	60.7	37.7	22.0	15.7	10.4	10.4	5.2	1.0	0.0
67.5°	4325.0	756.6	48.1	25.1	12.5	7.3	5.2	3.1	0.0	0.0	0.0
70°	3520.3	546.2	37.7	15.7	7.3	5.2	2.1	1.0	0.0	0.0	0.0
72.5°	2235.2	312.9	29.3	9.4	5.2	2.1	0.0	0.0	0.0	0.0	0.0
75°	864.4	122.4	19.8	6.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	244.9	57.5	11.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	63.8	25.1	6.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.4	10.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.8	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	1.0	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)