

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: P532374

Luminaire Tested: **GALN-SA7D-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37798 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

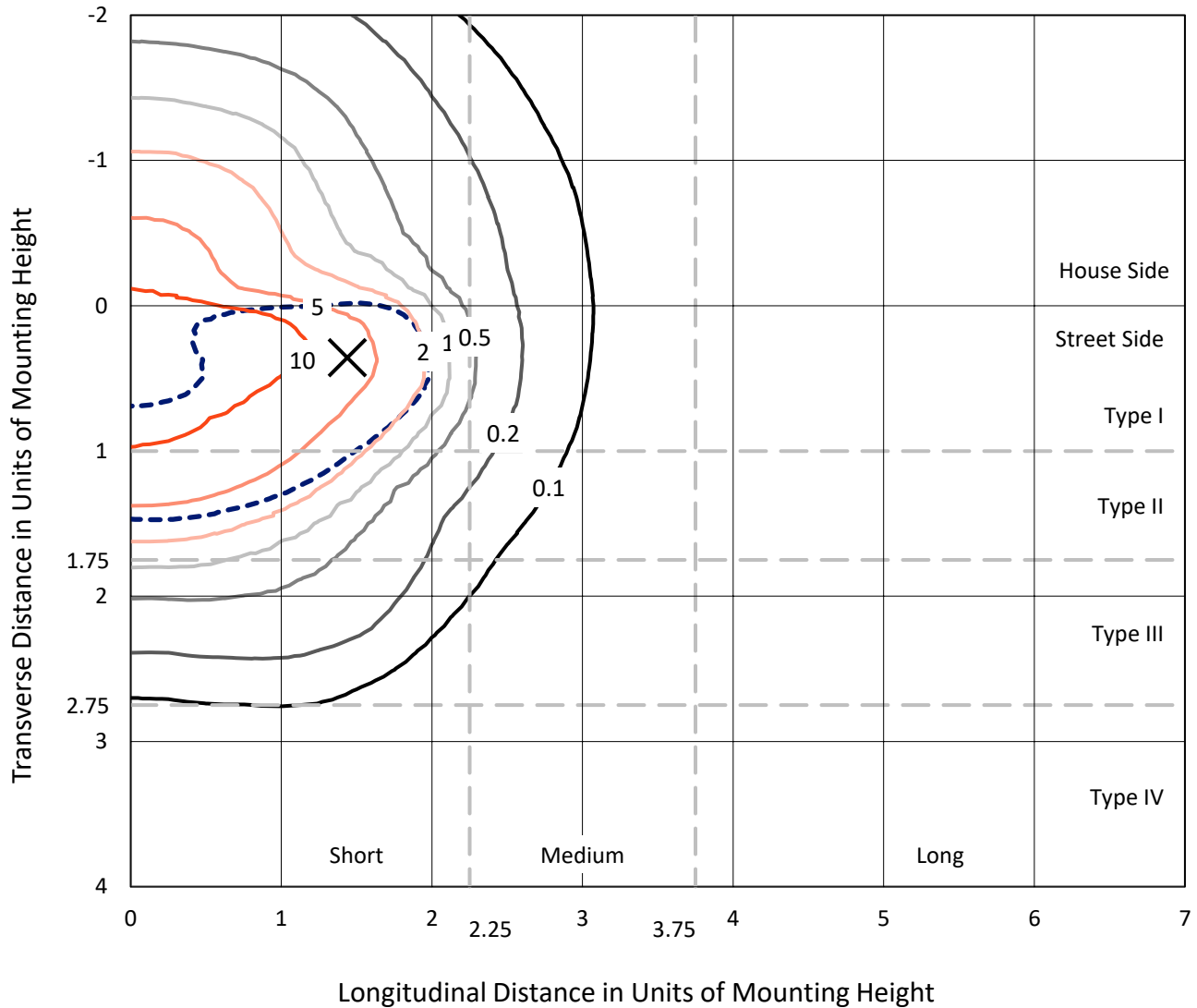
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532374
 CATALOG NUMBER: GALN-SA7D-727-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

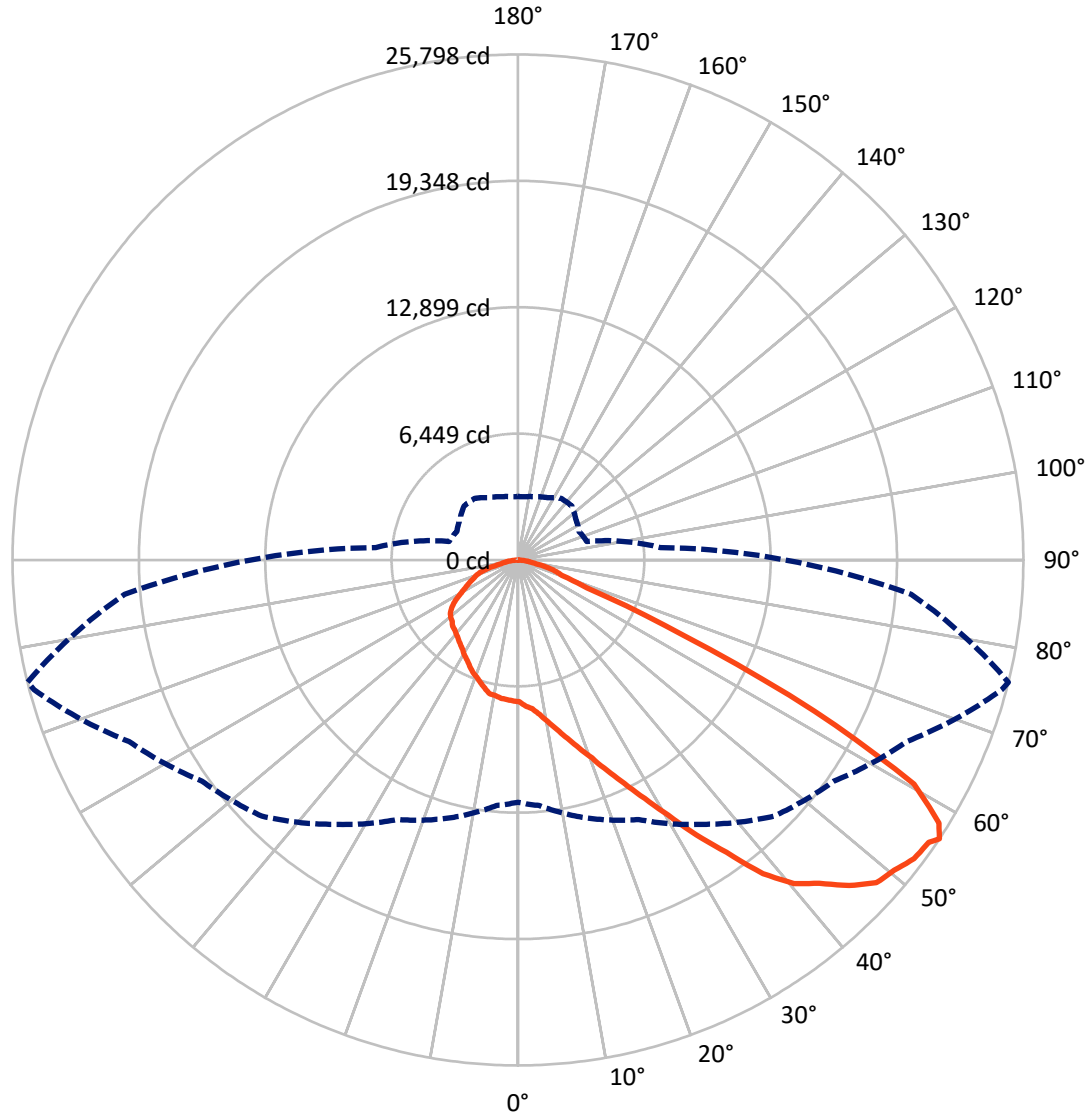
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

REPORT NUMBER: P532374
CATALOG NUMBER: GALN-SA7D-727-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P532374

CATALOG NUMBER: GALN-SA7D-727-U-T2-GRSWH

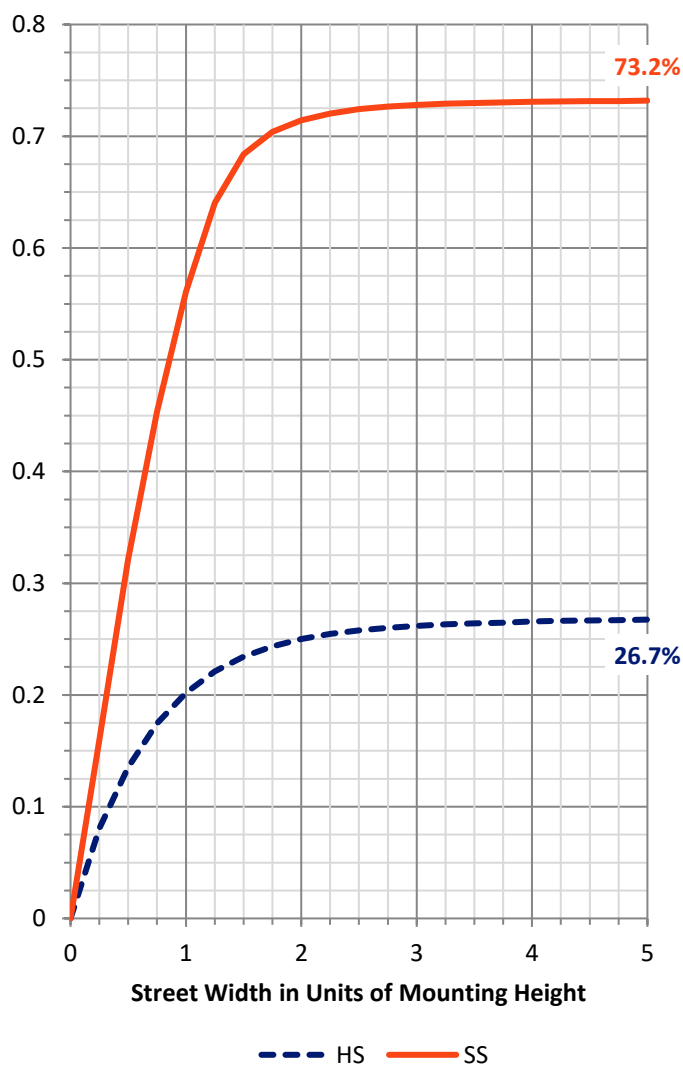
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10162.8	0.0	10162.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	27635.3	0.0	27635.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	37798.0	0.0	37798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.2	1.9
10°-20°	2253.0	6.0
20°-30°	3940.2	10.4
30°-40°	6169.2	16.3
40°-50°	8974.4	23.7
50°-60°	9863.5	26.1
60°-70°	4402.6	11.6
70°-80°	1271.6	3.4
80°-90°	206.3	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°	37798.0	100.0
0°-180°	37798.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532374

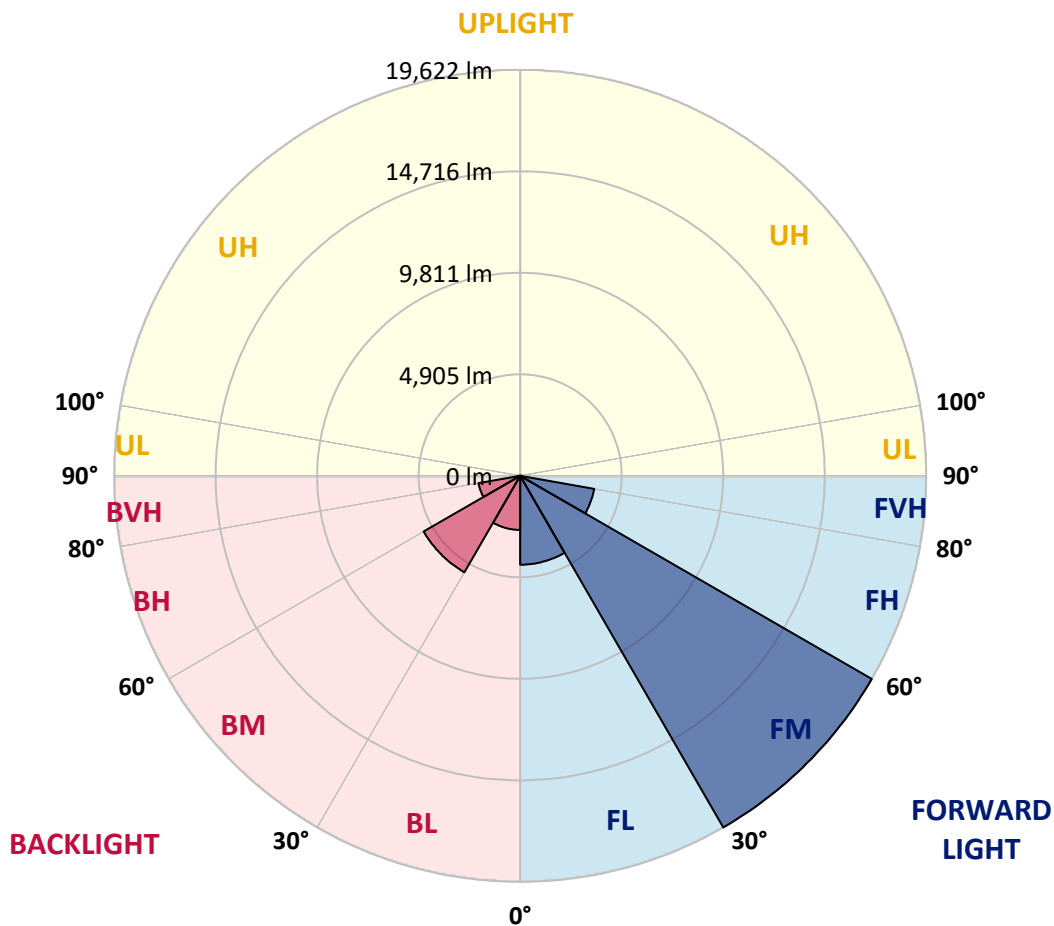
CATALOG NUMBER: GALN-SA7D-727-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4295.3	11.4			
FM (30°-60°)	19621.6	51.9			
FH (60°-80°)	3629.5	9.6			G2/5000
FVH (80°-90°)	88.8	0.2			G1/100
BL (0°-30°)	2615.1	6.9	B4/5000		
BM (30°-60°)	5385.4	14.2	B4/8500		
BH (60°-80°)	2044.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	117.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P532374

CATALOG NUMBER: GALN-SA7D-727-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2
2.5°	7967.1	7839.7	7829.9	7795.6	7815.2	7727.0	7633.9	7511.5	7384.1	7462.5	7276.3
5°	8525.7	8354.2	8422.8	8305.2	8319.9	8202.3	8011.2	7869.1	7712.3	7619.2	7487.0
7.5°	8721.7	8736.4	8785.4	8765.8	8667.8	8667.8	8540.4	8290.5	8016.1	7962.2	7741.7
10°	8986.3	8991.2	8937.3	8952.0	9089.2	9025.5	8912.8	8805.0	8452.2	8388.5	7996.5
12.5°	9079.4	8991.2	9079.4	9157.8	9319.5	9407.7	9383.2	9304.8	8927.5	8883.4	8310.1
15°	9094.1	9040.2	9113.7	9290.1	9432.2	9804.6	9990.8	9936.9	9437.1	9442.0	8662.9
17.5°	9025.5	9099.0	9128.4	9280.3	9608.6	9956.5	10495.5	10569.0	10157.4	10093.7	9108.8
20°	9118.6	9064.7	9103.9	9241.1	9677.2	10221.1	10926.6	11411.7	10833.5	10789.4	9569.4
22.5°	9476.3	9402.8	9393.0	9481.2	9794.8	10358.3	11382.3	12254.5	11656.7	11681.2	10142.7
25°	9755.6	9794.8	9760.5	9755.6	9951.6	10564.1	11985.0	13259.0	12773.9	12631.8	10818.8
27.5°	10235.8	10328.9	10260.3	10353.4	10309.3	10872.7	12416.2	14371.2	13979.2	13788.1	11431.3
30°	10902.1	10951.1	10887.4	10887.4	10755.1	11303.9	12808.2	15532.5	15370.8	15111.1	12151.6
32.5°	11779.2	11852.7	11725.3	11651.8	11632.2	11945.8	13513.8	16679.1	16953.4	16732.9	13107.1
35°	12940.5	12896.4	12744.5	12675.9	12411.3	12930.7	14562.3	17997.1	18717.4	18325.4	14263.4
37.5°	13964.5	13895.9	13886.1	13504.0	13567.7	13993.9	15454.1	18996.7	20427.4	20314.7	15483.5
40°	14920.0	14983.7	15086.6	14871.0	14773.0	15243.4	16492.9	19761.0	21755.3	21711.2	16424.3
42.5°	15944.1	15885.3	16066.6	15885.3	15738.3	16404.7	17619.8	20290.2	22921.4	22558.9	17409.1
45°	17428.7	17242.5	17306.2	17320.9	17213.1	17458.1	18085.3	20672.4	23739.7	23700.5	18129.4
47.5°	18668.4	18673.3	18565.5	18482.2	18153.9	18398.9	18604.7	20912.5	24680.5	24616.8	18408.7
50°	19129.0	19065.3	19378.9	19560.2	19579.8	19080.0	19011.4	21044.8	25175.4	24896.1	18688.0
52.5°	17472.8	17531.6	18026.5	19104.5	19726.8	19780.6	19486.7	21319.2	25376.3	25317.5	18913.4
55°	14062.5	14346.7	15160.1	16404.7	17879.5	19501.4	20001.1	21603.4	25484.1	25435.1	19912.9
56°	12362.3	12582.8	13641.2	14616.2	16468.4	18487.1	19677.8	21907.2	25567.4	25797.7	20148.1
57.5°	9951.6	10206.4	10965.8	12073.2	14258.5	16556.6	18786.0	21534.8	25244.0	25332.2	20319.6
60°	6222.8	6247.3	7158.7	7888.7	9427.3	11671.4	14336.9	18737.0	23362.4	23235.0	18251.9
62.5°	4081.6	4086.5	4914.5	5512.3	6213.0	6727.5	8437.5	12426.0	17237.6	17012.2	12994.4
65°	2866.4	2930.1	3572.0	4370.7	4654.8	4385.4	4331.5	6551.1	9628.2	9304.8	6982.3
67.5°	2097.1	2102.0	2670.4	3527.9	3939.5	3336.8	2709.6	3199.6	3812.1	3802.3	3233.9
70°	1386.7	1445.5	1881.5	2636.1	3106.5	2680.2	2214.7	2288.2	2425.4	2425.4	2405.8
72.5°	808.5	862.4	1151.5	1670.8	1744.3	1675.7	1754.1	1959.9	2048.1	2043.2	2018.7
75°	460.6	485.1	548.8	695.8	867.3	1024.1	1288.7	1484.7	1572.8	1626.7	1563.0
77.5°	269.5	284.2	323.4	396.9	450.8	553.7	700.7	837.9	955.5	940.8	950.6
80°	142.1	142.1	181.3	235.2	313.6	392.0	465.5	543.9	607.6	622.3	637.0
82.5°	83.3	88.2	117.6	171.5	225.4	279.3	357.7	411.6	470.4	475.3	485.1
85°	44.1	49.0	73.5	112.7	151.9	171.5	176.4	166.6	181.3	171.5	196.0
87.5°	14.7	14.7	24.5	19.6	19.6	24.5	29.4	29.4	39.2	39.2	39.2
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: P532374

CATALOG NUMBER: GALN-SA7D-727-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2
2.5°	7271.4	7271.4	7188.1	7031.3	7006.8	6943.1	6884.3	6879.4	6835.3	6796.1	6776.5
5°	7408.6	7256.7	7134.2	6992.1	6825.5	6747.1	6658.9	6560.9	6521.7	6560.9	6556.0
7.5°	7565.4	7438.0	7070.5	6805.9	6614.8	6536.4	6438.4	6335.5	6345.3	6345.3	6276.7
10°	7717.2	7545.8	6957.8	6619.7	6340.4	6281.6	6227.7	6266.9	6315.9	6325.7	6281.6
12.5°	7972.0	7585.0	6903.9	6433.5	6257.1	6129.7	6164.0	6271.8	6374.7	6345.3	6379.6
15°	8163.1	7619.2	6658.9	6242.4	6021.9	6080.7	6203.2	6276.7	6448.2	6428.6	6462.9
17.5°	8349.3	7638.8	6418.8	5987.6	5894.5	6056.2	6149.3	6360.0	6413.9	6531.5	6575.6
20°	8731.5	7678.0	6173.8	5830.8	5801.4	5987.6	6149.3	6247.3	6364.9	6467.8	6467.8
22.5°	8927.5	7658.4	6012.1	5625.0	5718.1	5835.7	5982.7	6149.3	6149.3	6247.3	6252.2
25°	9172.5	7580.1	5757.3	5527.0	5595.6	5708.3	5874.9	5816.1	5879.8	5879.8	5958.2
27.5°	9451.8	7413.5	5536.8	5350.6	5487.8	5610.3	5634.8	5595.6	5522.1	5512.3	5482.9
30°	9677.2	7207.7	5375.1	5291.8	5404.5	5473.1	5394.7	5311.4	5184.0	5174.2	5105.6
32.5°	9985.9	6952.9	5174.2	5144.8	5272.2	5277.1	5252.6	5125.2	4939.0	4860.6	4782.2
35°	10505.3	6805.9	5022.3	5066.4	5105.6	5090.9	5046.8	4909.6	4723.4	4689.1	4659.7
37.5°	10887.4	6698.1	4865.5	4919.4	4953.7	4973.3	4841.0	4689.1	4694.0	4625.4	4605.8
40°	11318.6	6629.5	4738.1	4762.6	4767.5	4831.2	4669.5	4596.0	4630.3	4586.2	4615.6
42.5°	11872.3	6649.1	4605.8	4586.2	4679.3	4654.8	4576.4	4478.5	4498.1	4365.8	4385.4
45°	12166.3	6781.4	4527.5	4439.3	4542.2	4537.3	4434.4	4341.3	4223.7	3968.9	3978.7
47.5°	12362.3	6815.7	4341.3	4282.5	4390.3	4454.0	4336.4	4120.8	3954.2	3772.9	3728.8
50°	12563.2	6879.4	4253.1	4130.6	4174.7	4326.6	4179.6	3973.8	3812.1	3650.4	3674.9
52.5°	12739.6	7001.9	4081.6	3900.3	3978.7	4145.3	4066.9	3817.0	3640.6	3508.3	3469.1
55°	13523.6	7276.3	3792.5	3557.3	3743.5	3954.2	3910.1	3606.3	3415.2	3346.6	3336.8
56°	13646.1	7286.1	3640.6	3439.7	3611.2	3890.5	3836.6	3513.2	3341.7	3233.9	3238.8
57.5°	13665.7	7168.5	3425.0	3331.9	3478.9	3797.4	3728.8	3439.7	3204.5	3106.5	3077.1
60°	12024.2	5595.6	3155.5	3096.7	3268.2	3513.2	3488.7	3238.8	2974.2	2861.5	2915.4
62.5°	8197.4	4101.2	2944.8	2935.0	3023.2	3263.3	3199.6	2974.2	2753.7	2680.2	2645.9
65°	4772.4	3111.4	2739.0	2699.8	2773.3	2900.7	2944.8	2709.6	2479.3	2430.3	2415.6
67.5°	2817.4	2572.4	2474.4	2410.7	2386.2	2464.6	2498.9	2361.7	2131.4	2062.8	2121.6
70°	2356.8	2288.2	2293.1	2185.3	2126.5	2072.6	2043.2	1920.7	1729.6	1641.4	1616.9
72.5°	2033.4	2004.0	1984.4	1886.4	1832.5	1710.0	1582.6	1460.2	1318.1	1244.6	1249.5
75°	1553.2	1543.4	1553.2	1504.3	1411.2	1313.2	1195.6	1038.8	931.0	837.9	857.5
77.5°	926.1	955.5	970.2	950.6	911.4	823.2	749.7	646.8	543.9	470.4	460.6
80°	637.0	661.5	686.0	661.5	622.3	558.6	480.2	401.8	328.3	289.1	279.3
82.5°	485.1	509.6	524.3	499.8	450.8	382.2	328.3	274.4	215.6	176.4	166.6
85°	176.4	200.9	196.0	235.2	254.8	245.0	210.7	161.7	122.5	88.2	83.3
87.5°	49.0	44.1	49.0	49.0	49.0	44.1	39.2	39.2	39.2	24.5	19.6
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)