

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: P531520

Luminaire Tested: **GALN-SA6D-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39111 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

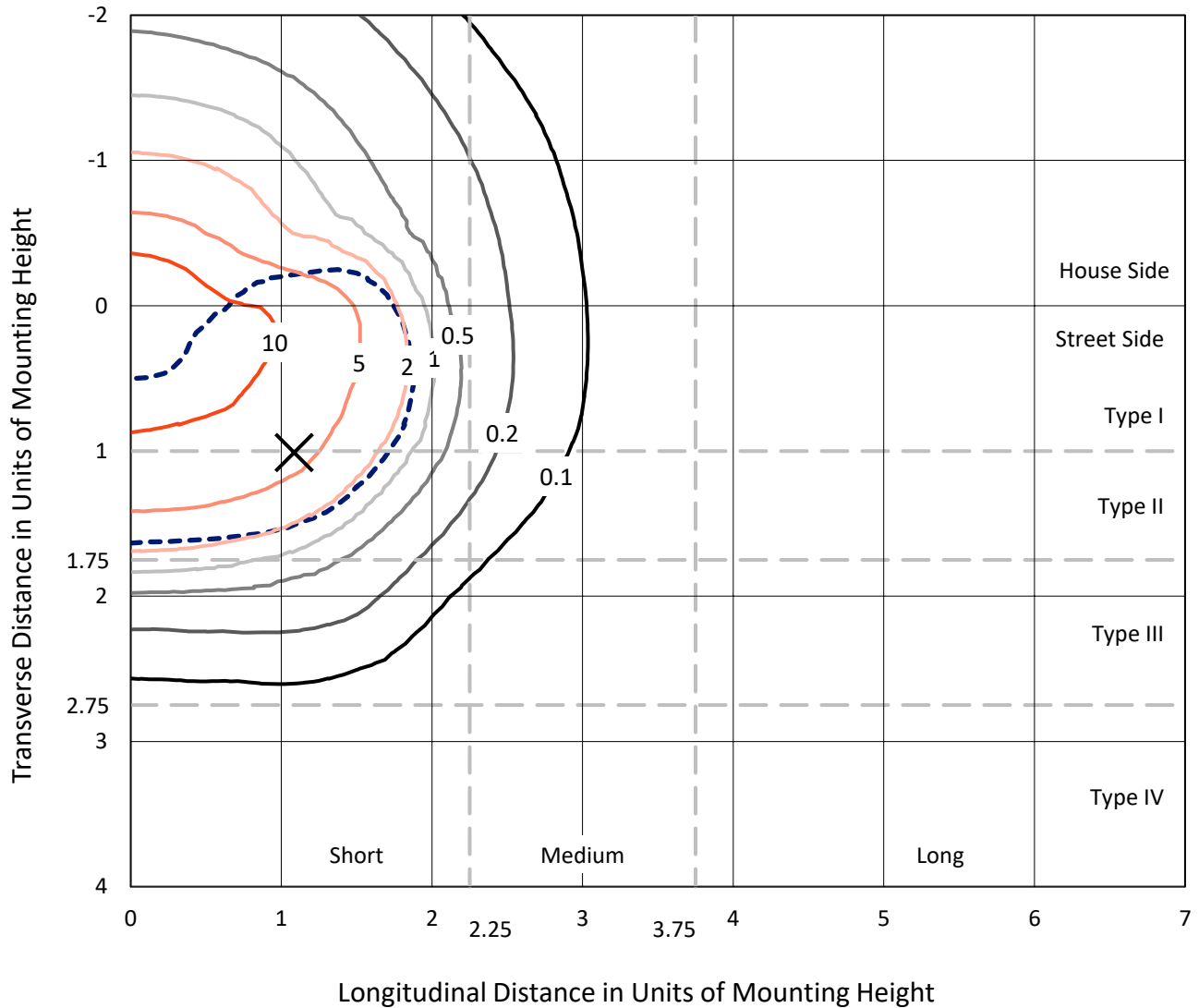
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531520
 CATALOG NUMBER: GALN-SA6D-740-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

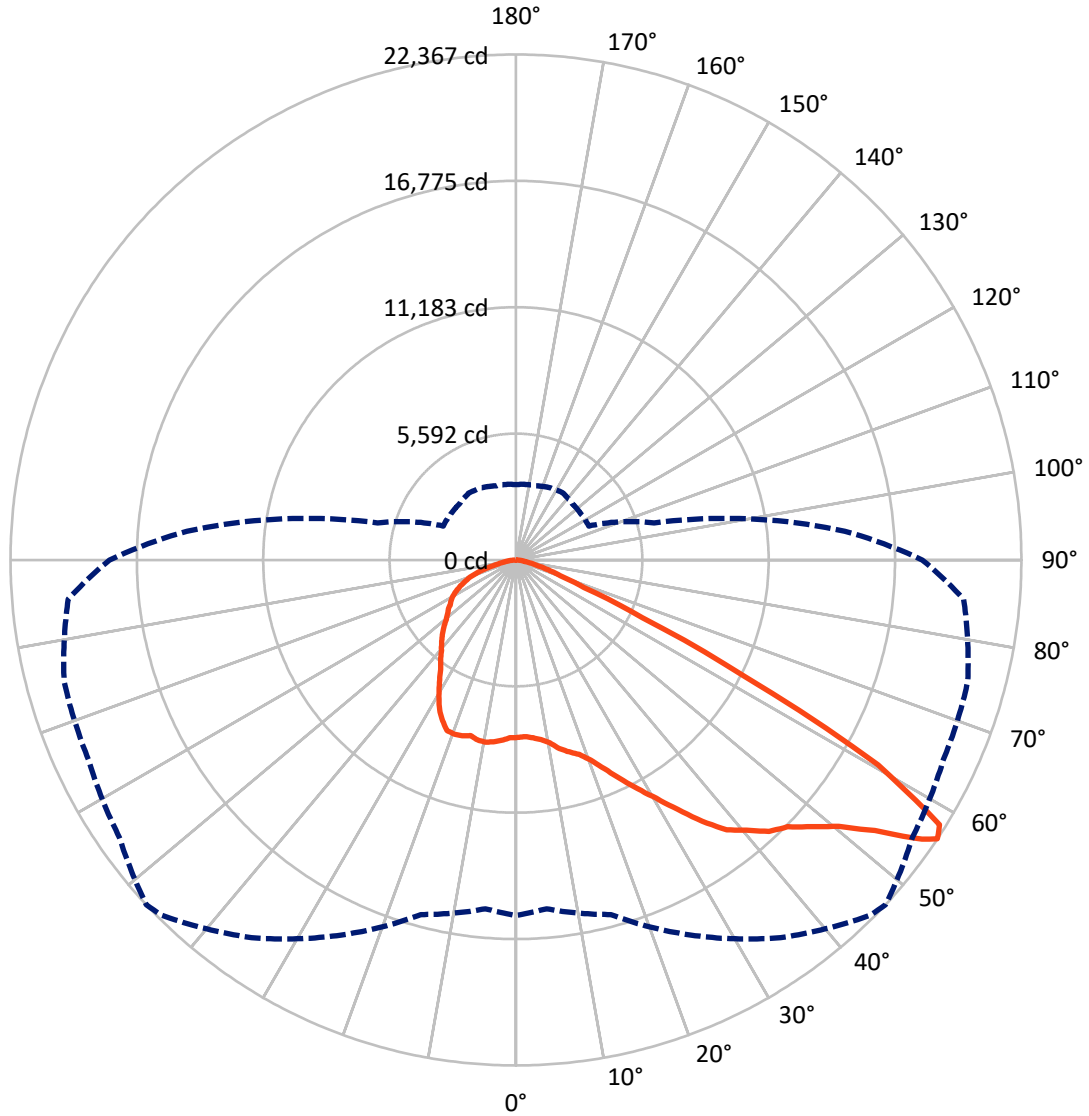
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

REPORT NUMBER: P531520
CATALOG NUMBER: GALN-SA6D-740-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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 CATALOG NUMBER: GALN-SA6D-740-U-T3-GRSWH

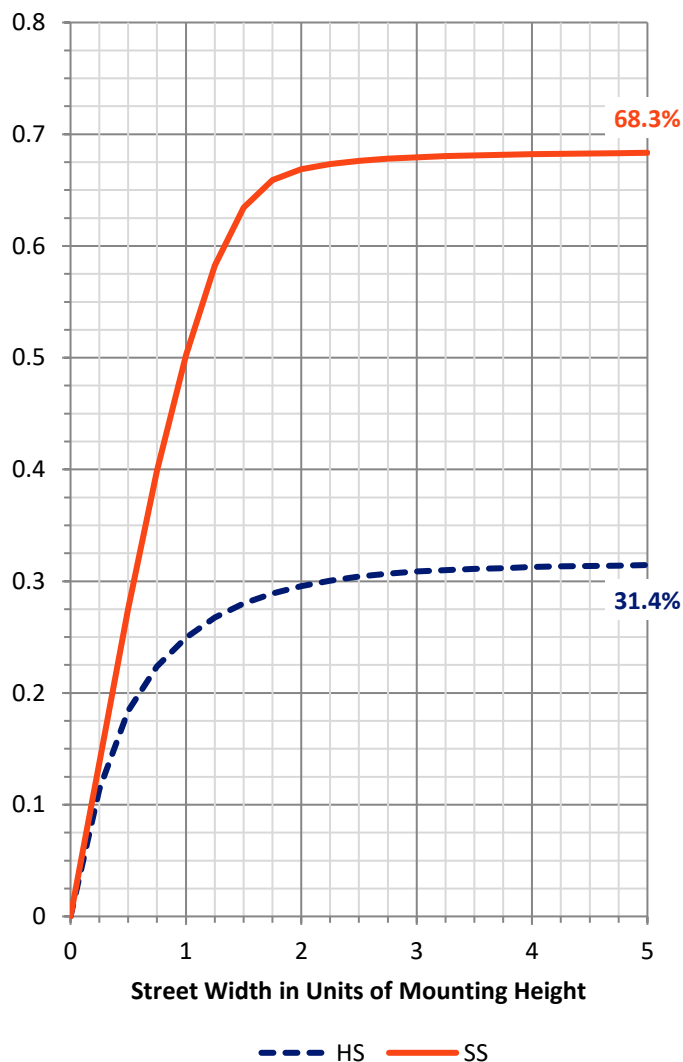
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12393.8	0.0	12393.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	26717.2	0.0	26717.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	39111.0	0.0	39111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.5	2.0
10°-20°	2414.7	6.2
20°-30°	4268.6	10.9
30°-40°	6411.3	16.4
40°-50°	8798.9	22.5
50°-60°	10482.8	26.8
60°-70°	4486.0	11.5
70°-80°	1269.5	3.2
80°-90°	213.6	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°	39111.0	100.0
0°-180°	39111.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531520

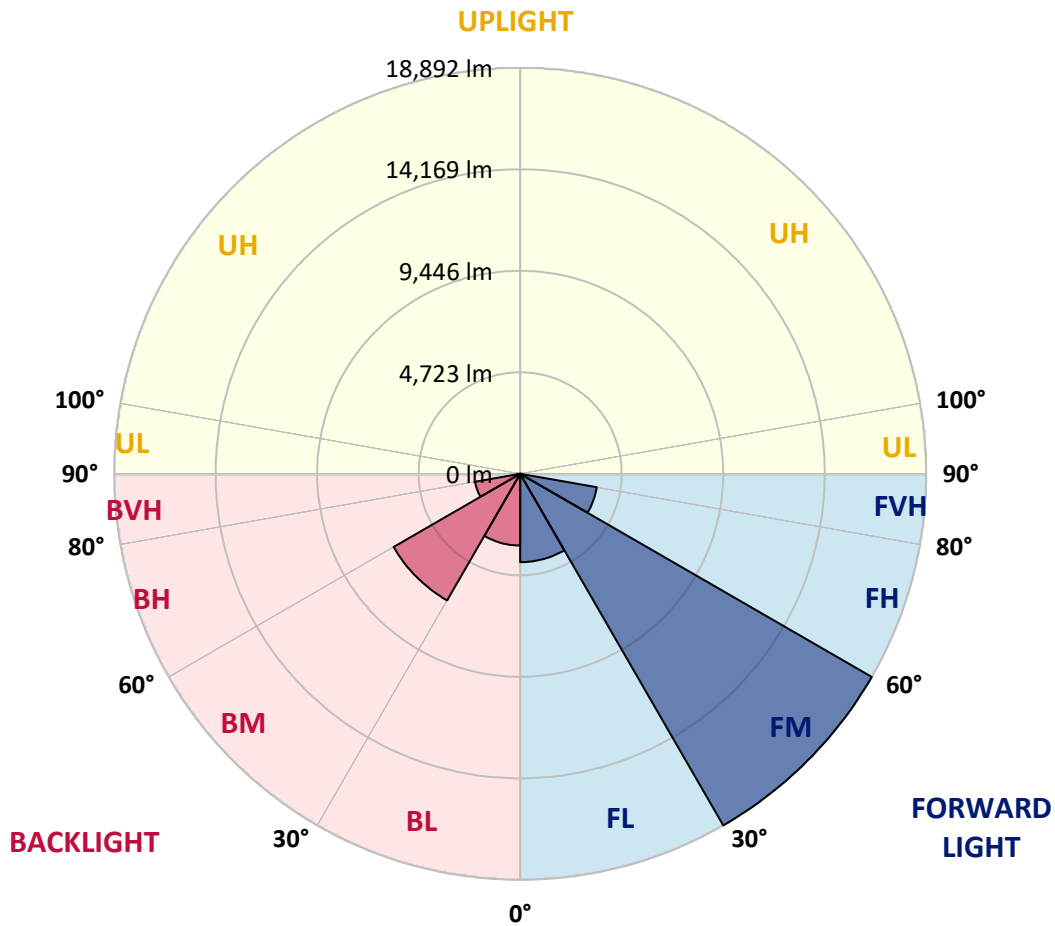
CATALOG NUMBER: GALN-SA6D-740-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4111.9	10.5			
FM (30°-60°)	18891.5	48.3			
FH (60°-80°)	3623.1	9.3			G2/5000
FVH (80°-90°)	90.7	0.2			G1/100
BL (0°-30°)	3336.9	8.5	B4/5000		
BM (30°-60°)	6801.5	17.4	B4/8500		
BH (60°-80°)	2132.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	123.0	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: P531520

CATALOG NUMBER: GALN-SA6D-740-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7856.2	7856.2	7856.2	7856.2	7856.2	7856.2	7856.2	7856.2	7856.2	7856.2	7856.2
2.5°	7826.3	7811.3	7801.3	7881.2	7851.2	7856.2	7826.3	7856.2	7876.2	7831.3	7896.1
5°	7811.3	7856.2	7816.3	7841.2	7906.1	7886.1	7906.1	7965.9	7951.0	7936.0	7916.1
7.5°	7951.0	7956.0	7985.9	7995.9	8015.8	7995.9	8025.8	8080.7	8065.7	7980.9	7990.9
10°	8150.5	8160.5	8165.5	8220.3	8255.3	8260.2	8225.3	8175.4	8170.5	8285.2	8205.4
12.5°	8380.0	8355.0	8414.9	8434.8	8474.7	8519.6	8564.5	8459.8	8524.6	8529.6	8434.8
15°	8714.2	8739.1	8669.3	8669.3	8684.2	8689.2	8813.9	8764.0	8754.1	8699.2	8739.1
17.5°	9213.0	9043.4	9038.4	8968.6	8958.6	8998.5	9043.4	9083.3	9218.0	9108.2	8893.7
20°	9577.1	9617.0	9472.3	9387.5	9402.5	9492.3	9447.4	9627.0	9721.8	9542.2	9332.7
22.5°	10220.6	10085.9	10120.8	9931.2	9946.2	10041.0	10036.0	10220.6	10275.4	9991.1	9686.8
25°	10654.5	10619.6	10649.5	10499.9	10519.8	10594.7	10714.4	11018.6	10928.9	10614.6	9911.3
27.5°	11288.0	11218.2	11193.2	11138.4	11118.4	11317.9	11457.6	11781.8	11717.0	11258.1	10310.3
30°	11936.5	11891.6	11916.5	11692.0	11771.8	12195.8	12235.7	12679.7	12649.7	11841.7	10754.3
32.5°	12385.4	12410.3	12455.2	12330.5	12684.7	13023.9	13158.5	13662.3	13687.3	12844.3	11612.2
35°	13108.7	13023.9	13048.8	13193.4	13358.1	13976.6	14196.0	14530.3	14739.7	13896.8	12435.3
37.5°	13562.6	13652.3	13547.6	13777.1	14206.0	14949.2	15148.8	15492.9	15712.4	14934.3	13557.6
40°	14270.9	14126.2	14201.0	14365.6	14804.6	15772.3	15717.4	16071.6	16141.4	15817.2	14605.1
42.5°	15034.0	14964.2	14859.5	15233.6	15602.7	16306.0	16415.7	16251.1	16605.3	16680.1	16101.5
45°	15946.9	16031.7	16046.6	16056.6	16380.8	16994.4	16844.7	16700.1	17109.1	17652.8	17029.3
47.5°	16794.8	16525.5	16720.0	16989.4	17448.3	17453.3	17627.8	17283.7	17717.6	18201.5	17867.3
50°	17079.2	16949.5	17208.8	17717.6	18425.9	18500.8	18520.7	18031.9	18256.3	18640.4	18156.6
52.5°	16969.4	16924.5	17587.9	18376.1	19413.6	19792.7	19892.4	19288.9	19413.6	19239.0	18795.1
55°	16445.7	16580.3	17248.7	18854.9	20446.1	21618.3	21807.8	21044.7	20251.6	20386.2	19897.4
56°	15727.4	15492.9	16241.2	18311.2	20401.2	22211.9	22366.5	21413.8	20875.1	20700.5	19887.4
57.5°	13343.1	13038.8	14021.5	16475.6	19268.9	21987.4	22102.1	21568.4	20770.3	20416.2	18435.9
60°	7811.3	7961.0	9208.0	11362.8	14864.5	18026.9	18411.0	18800.0	18266.3	16680.1	13722.2
62.5°	3771.0	3676.2	4569.1	6514.4	9058.3	11507.5	11392.8	12485.1	13083.7	11851.7	8664.3
65°	1975.3	1965.3	2494.0	3556.5	4978.1	6045.5	6150.3	6738.9	7561.9	6105.4	4399.5
67.5°	1451.5	1491.4	1755.8	2499.0	3202.3	3267.2	3252.2	3546.5	3626.3	3067.7	2703.5
70°	1137.3	1157.2	1351.8	1900.5	2384.3	2134.9	2090.0	2124.9	2359.4	2459.1	2339.4
72.5°	823.0	843.0	1007.6	1281.9	1491.4	1456.5	1486.4	1681.0	1970.3	2075.0	1950.3
75°	548.7	563.7	653.4	783.1	882.9	952.7	1007.6	1232.1	1501.4	1561.3	1501.4
77.5°	379.1	394.1	453.9	553.7	563.7	608.5	628.5	733.2	897.9	972.7	932.8
80°	214.5	214.5	244.4	284.3	349.2	409.0	419.0	503.8	578.6	628.5	638.5
82.5°	99.8	104.7	129.7	174.6	229.5	284.3	294.3	349.2	404.0	453.9	468.9
85°	49.9	54.9	74.8	104.7	139.7	169.6	164.6	169.6	179.6	169.6	174.6
87.5°	15.0	15.0	20.0	24.9	20.0	24.9	24.9	29.9	34.9	39.9	44.9
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: P531520

CATALOG NUMBER: GALN-SA6D-740-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7856.2	7856.2	7856.2	7856.2	7856.2	7856.2	7856.2	7856.2	7856.2	7856.2	7856.2
2.5°	7901.1	7916.1	7816.3	7911.1	7876.2	7871.2	7941.0	7931.0	7956.0	7946.0	7886.1
5°	7906.1	7871.2	7975.9	7881.2	7926.0	8020.8	7956.0	8105.6	8030.8	8080.7	7970.9
7.5°	8060.7	8070.7	8050.7	8090.7	8070.7	8115.6	8080.7	8115.6	8055.7	8060.7	8160.5
10°	8195.4	8165.5	8200.4	8150.5	8185.4	8170.5	8090.7	8065.7	8085.7	8060.7	8125.6
12.5°	8444.8	8389.9	8365.0	8305.1	8265.2	8115.6	7990.9	7921.1	8015.8	8030.8	8000.9
15°	8699.2	8704.2	8589.5	8454.8	8205.4	7980.9	8010.8	8035.8	8035.8	8075.7	8000.9
17.5°	8858.8	8858.8	8754.1	8484.7	8230.3	8100.6	8070.7	7990.9	7921.1	7911.1	7906.1
20°	9138.1	9053.3	8813.9	8479.7	8220.3	8160.5	7936.0	7746.5	7601.8	7551.9	7547.0
22.5°	9457.4	9242.9	8908.7	8489.7	8205.4	8120.6	7701.6	7417.3	7157.9	7048.1	7063.1
25°	9751.7	9407.5	8963.6	8444.8	8150.5	7741.5	7272.6	6878.5	6609.2	6519.4	6474.5
27.5°	9956.2	9582.1	8963.6	8484.7	7946.0	7317.5	6838.6	6334.9	6100.4	6040.6	6050.5
30°	10230.5	9801.6	9118.2	8399.9	7537.0	6768.8	6195.2	5866.0	5726.3	5676.4	5711.3
32.5°	10874.0	10375.2	9332.7	8195.4	7053.1	6220.1	5756.2	5571.7	5367.2	5267.4	5232.5
35°	11572.3	10918.9	9542.2	7851.2	6509.4	5721.3	5432.0	5262.4	5018.0	4908.3	4928.2
37.5°	12560.0	11617.2	9557.1	7282.6	5920.8	5442.0	5177.6	4913.2	4713.7	4544.1	4494.3
40°	13891.8	12569.9	9522.2	6684.0	5447.0	5112.8	4918.2	4589.0	4364.6	4244.8	4269.8
42.5°	15064.0	13687.3	9377.6	6005.6	5018.0	4888.3	4668.8	4344.6	4125.1	4000.4	3990.5
45°	16051.6	14510.3	9103.2	5427.0	4658.9	4638.9	4384.5	4135.1	3960.5	3845.8	3895.7
47.5°	16964.4	15173.7	8689.2	4848.4	4329.6	4369.6	4125.1	3970.5	3860.8	3756.0	3751.0
50°	17293.6	15163.7	8325.1	4369.6	4065.3	4045.3	4035.3	3870.7	3756.0	3666.2	3706.1
52.5°	17842.3	15333.3	7931.0	4040.3	3825.9	3830.8	3865.8	3746.0	3616.4	3561.5	3611.4
55°	18630.4	15358.3	7063.1	3656.3	3626.3	3661.2	3661.2	3581.4	3471.7	3426.8	3401.9
56°	17987.0	14615.0	6334.9	3556.5	3526.6	3526.6	3621.3	3531.6	3396.9	3362.0	3332.0
57.5°	16590.3	12804.4	5302.3	3436.8	3391.9	3461.7	3511.6	3416.8	3292.1	3242.2	3272.2
60°	11442.6	8664.3	3985.5	3177.4	3177.4	3292.1	3332.0	3192.4	3137.5	3132.5	3092.6
62.5°	6679.0	5047.9	3117.5	2943.0	2952.9	3047.7	3077.6	2997.8	2928.0	3012.8	3052.7
65°	3541.5	3012.8	2673.6	2693.6	2698.5	2773.4	2903.1	2898.1	2893.1	2918.0	2923.0
67.5°	2563.9	2504.0	2429.2	2409.2	2419.2	2474.1	2603.8	2703.5	2698.5	2638.7	2593.8
70°	2284.5	2199.7	2154.8	2159.8	2119.9	2184.8	2289.5	2354.4	2239.6	2169.8	2139.9
72.5°	1900.5	1875.5	1845.6	1850.6	1770.8	1755.8	1636.1	1636.1	1606.2	1586.2	1621.1
75°	1451.5	1441.6	1456.5	1431.6	1346.8	1257.0	1187.2	1122.3	1022.6	982.6	962.7
77.5°	917.8	947.7	982.6	927.8	892.9	828.0	758.2	693.3	613.5	568.6	568.6
80°	623.5	648.4	673.4	663.4	623.5	563.7	508.8	439.0	384.1	349.2	344.2
82.5°	473.9	493.8	528.7	488.8	448.9	399.0	354.2	304.3	254.4	214.5	214.5
85°	169.6	194.5	214.5	234.4	249.4	254.4	219.5	179.6	144.7	114.7	109.7
87.5°	44.9	49.9	54.9	49.9	49.9	49.9	54.9	49.9	44.9	34.9	34.9
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)