

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: P530286

Luminaire Tested: **GALN-SA5C-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27177 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

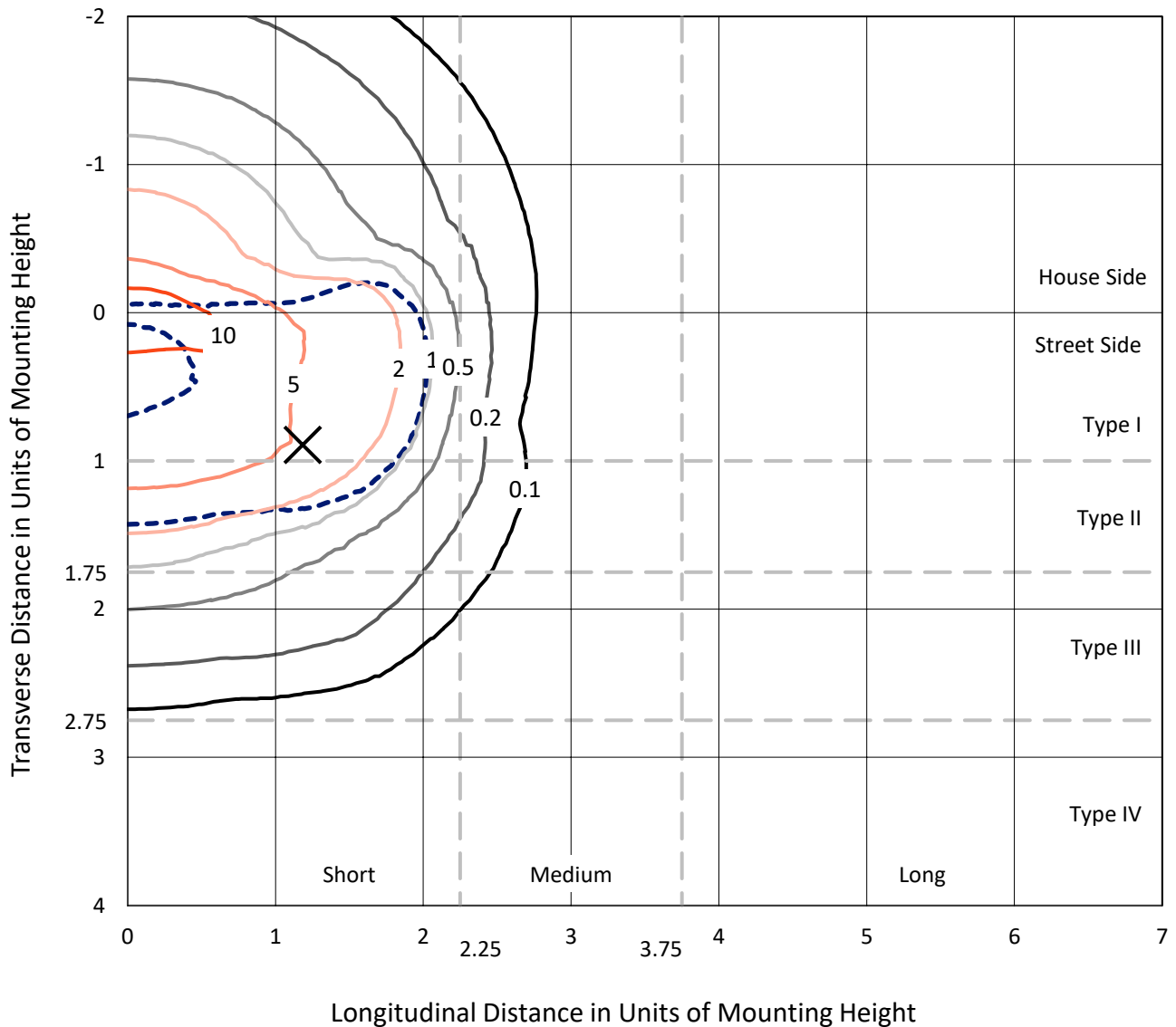
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

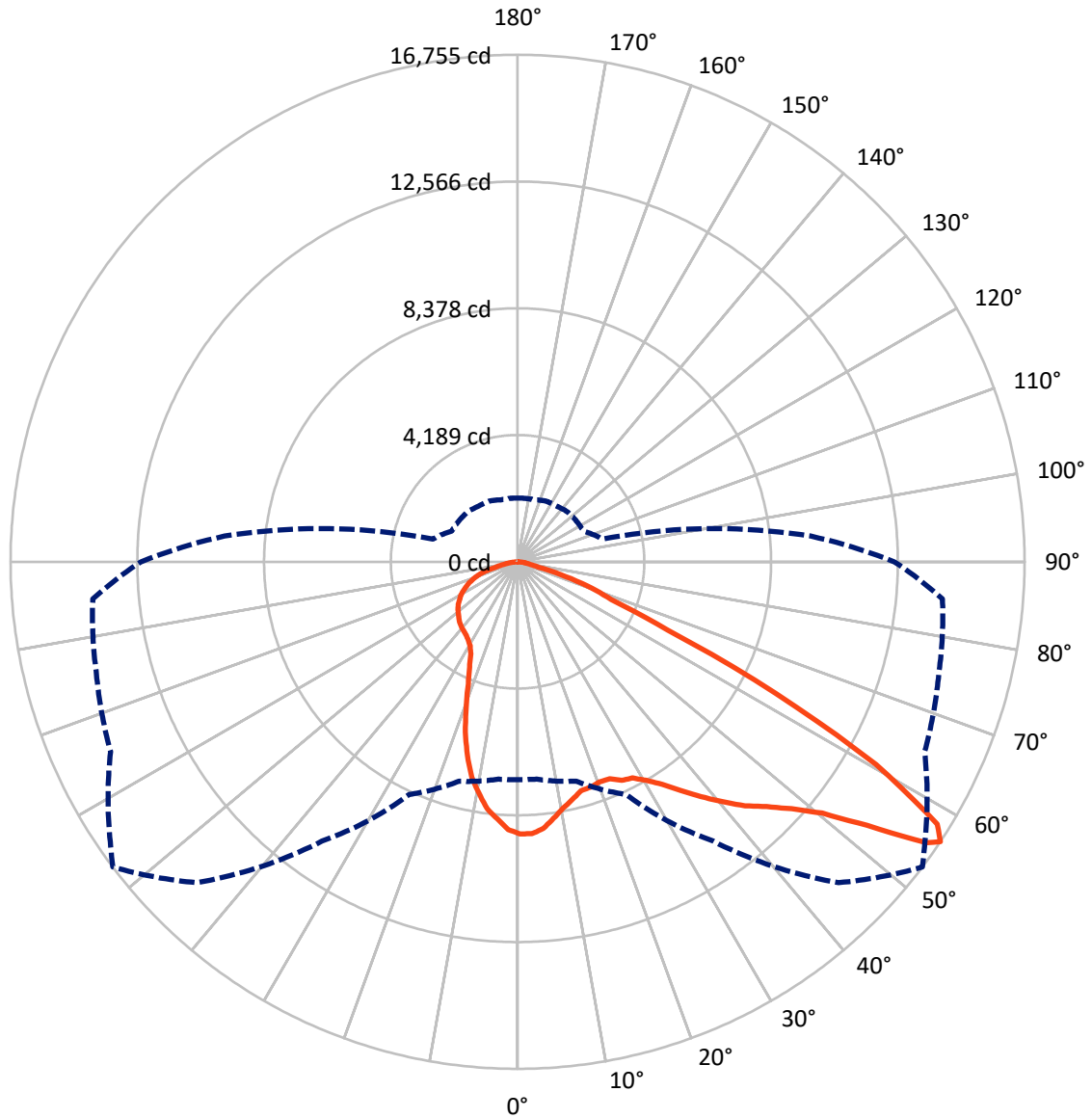
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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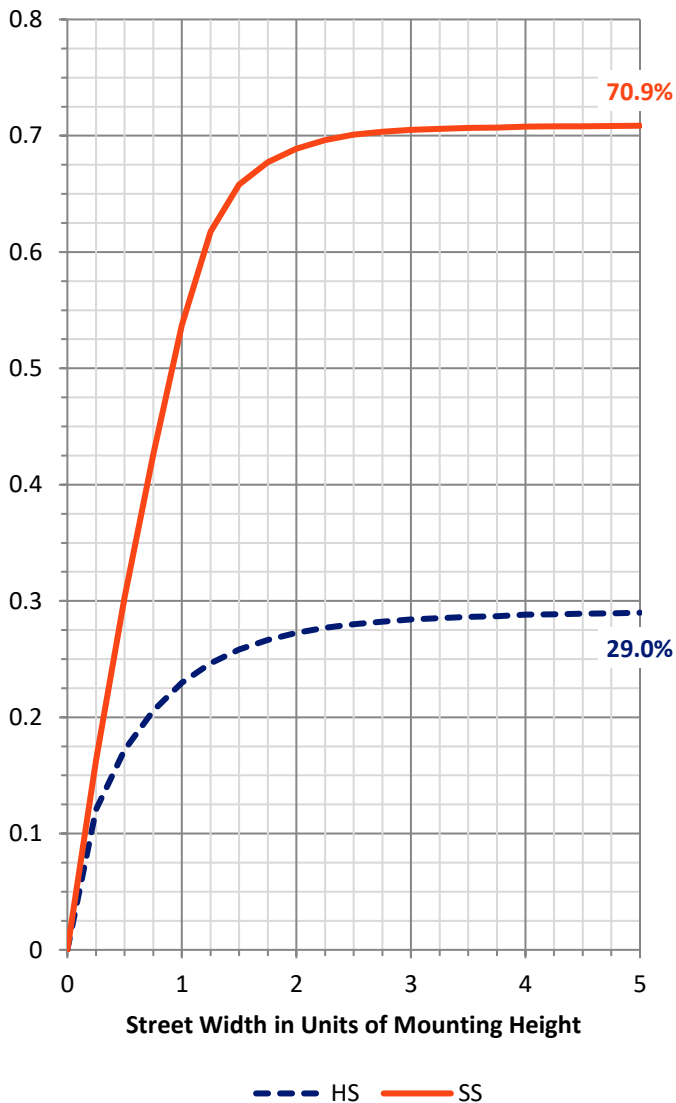
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7930.8	0.0	7930.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	19246.2	0.0	19246.2
	% Fixture	70.8	0.0	70.8
Total	Lumens	27177.0	0.0	27177.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.0	2.9
10°-20°	1988.0	7.3
20°-30°	2931.5	10.8
30°-40°	4188.5	15.4
40°-50°	5765.0	21.2
50°-60°	6812.6	25.1
60°-70°	3630.7	13.4
70°-80°	921.1	3.4
80°-90°	143.6	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°	27177.0	100.0
0°-180°	27177.0	100.0



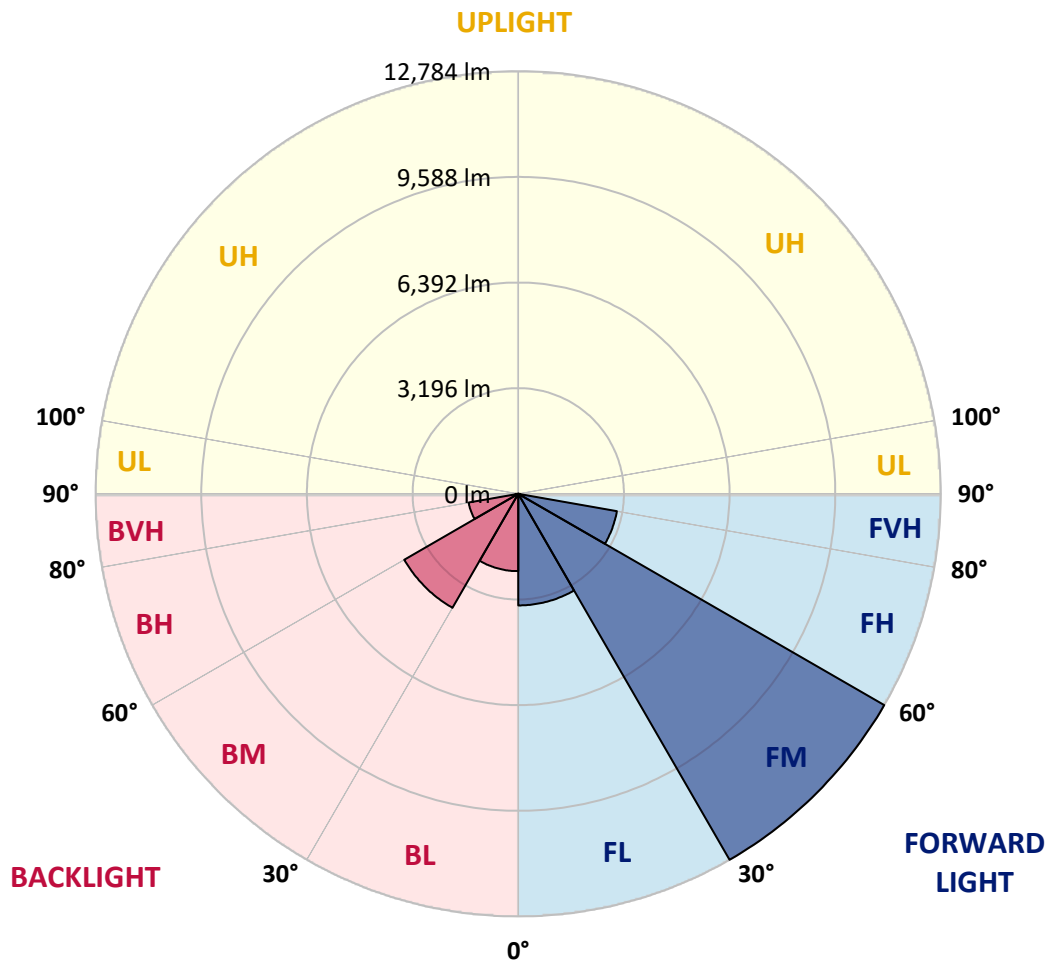
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3376.4	12.4			
FM (30°-60°)	12783.5	47.0			
FH (60°-80°)	3028.5	11.1			G2/5000
FVH (80°-90°)	57.7	0.2			G1/100
BL (0°-30°)	2339.1	8.6	B3/2500		
BM (30°-60°)	3982.6	14.7	B3/5000		
BH (60°-80°)	1523.2	5.6	B3/2500		G3/2500
BVH (80°-90°)	85.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8991.2	8991.2	8991.2	8991.2	8991.2	8991.2	8991.2	8991.2	8991.2	8991.2	8991.2
2.5°	8879.7	8803.0	8848.3	8830.9	8973.8	9015.6	8994.7	9012.1	9092.3	9054.0	8973.8
5°	8297.4	8405.5	8426.4	8478.7	8562.4	8726.3	8855.3	8890.1	8928.5	9106.3	9088.8
7.5°	7767.5	7840.7	7802.4	7955.8	8137.1	8402.0	8558.9	8586.8	8938.9	9036.5	9109.8
10°	7432.8	7359.6	7533.9	7575.8	7781.5	8084.8	8273.0	8388.1	8708.8	9095.8	9141.1
12.5°	7122.6	7098.2	7202.7	7321.3	7551.4	7865.1	8056.9	8102.2	8597.3	9005.2	9217.8
15°	6892.5	6864.6	6969.2	7056.3	7324.8	7603.7	7847.7	7976.7	8475.2	8952.9	9151.6
17.5°	6711.2	6707.7	6766.9	6923.8	7199.3	7432.8	7826.8	7833.8	8412.5	9033.1	9207.4
20°	6700.7	6697.2	6707.7	6882.0	7133.0	7418.9	7760.6	7823.3	8412.5	8977.3	9210.9
22.5°	6787.9	6732.1	6794.8	6906.4	7087.7	7443.3	7785.0	7924.4	8614.7	9252.7	9367.7
25°	6927.3	6941.3	6976.1	7014.5	7119.1	7499.1	8001.1	8116.2	8851.8	9489.8	9583.9
27.5°	7181.8	7174.8	7188.8	7209.7	7300.4	7551.4	8088.3	8384.6	9346.8	9911.6	9817.5
30°	7554.9	7530.5	7586.2	7659.4	7575.8	7718.7	8377.6	8600.8	9807.0	10336.9	10079.0
32.5°	7893.0	7983.7	8088.3	8119.6	8018.5	8046.4	8761.1	8987.7	10190.5	10859.9	10399.7
35°	8314.9	8388.1	8527.5	8625.2	8607.7	8524.1	9284.1	9583.9	10744.8	11243.4	10737.9
37.5°	8726.3	8813.4	9043.5	9332.9	9172.5	9134.2	9841.9	10089.4	10915.7	11449.1	10985.4
40°	9388.7	9385.2	9782.6	9932.5	10075.5	10009.2	10420.6	10504.3	11006.3	11403.8	10992.4
42.5°	10166.1	10117.3	10521.7	10755.3	10940.1	10947.0	11023.7	10995.9	11048.2	11173.7	10919.2
45°	10905.2	11009.8	11417.7	11836.1	12020.8	12041.8	11532.8	11480.5	11121.4	11107.4	10779.7
47.5°	11808.2	11832.6	12167.3	12718.1	13146.9	13000.5	12191.7	12076.6	11442.1	11550.2	11013.3
50°	11860.5	12041.8	12341.6	12990.0	14307.9	14269.5	13045.8	12829.7	11958.1	12177.7	11665.2
52.5°	10765.8	10723.9	11079.5	12139.4	14220.7	15531.6	14461.3	13945.3	13066.7	12899.4	12721.6
55°	8203.3	8300.9	8614.7	9685.0	12348.6	15549.0	16389.2	15967.4	14252.1	13966.2	13760.5
56°	7195.8	7209.7	7506.0	8482.2	11267.8	14994.7	16755.3	16413.6	14841.3	14405.5	14091.7
57.5°	5965.1	5884.9	6038.3	6571.7	9510.7	13823.3	16354.3	16689.0	15531.6	14879.6	14443.8
60°	4696.1	4678.6	4615.9	4713.5	6010.4	10413.6	13614.1	14367.1	15461.8	14433.4	13833.7
62.5°	3835.0	3747.8	3873.3	4012.8	4176.6	6460.2	9566.5	10009.2	12275.3	11522.3	10392.7
65°	2973.8	2932.0	3088.9	3542.1	3639.7	4103.4	5449.1	5790.8	7248.1	7119.1	6268.4
67.5°	2046.5	2053.4	2189.4	2879.7	3374.8	3332.9	3336.4	3514.2	3782.7	2810.0	2447.4
70°	1296.9	1293.4	1366.6	1854.7	2715.8	2743.7	2604.3	2552.0	2419.5	1464.3	1551.4
72.5°	833.2	808.8	847.2	1025.0	1405.0	1624.6	1673.4	1704.8	1401.5	1150.5	1248.1
75°	470.7	446.2	432.3	477.6	554.3	641.5	704.2	725.2	812.3	871.6	923.9
77.5°	142.9	129.0	156.9	209.2	275.4	369.6	449.7	463.7	547.4	617.1	669.4
80°	62.8	69.7	97.6	139.5	195.2	261.5	317.3	338.2	394.0	446.2	460.2
82.5°	38.3	41.8	66.2	94.1	136.0	184.8	226.6	233.6	289.4	331.2	341.7
85°	13.9	17.4	34.9	55.8	87.2	118.5	118.5	129.0	118.5	118.5	129.0
87.5°	0.0	0.0	3.5	7.0	7.0	10.5	13.9	13.9	17.4	20.9	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8991.2	8991.2	8991.2	8991.2	8991.2	8991.2	8991.2	8991.2	8991.2	8991.2	8991.2
2.5°	9015.6	8998.2	8970.3	8869.2	8858.7	8827.4	8653.0	8625.2	8653.0	8569.4	8576.4
5°	8998.2	9050.5	8841.3	8740.2	8551.9	8416.0	8259.1	8178.9	8036.0	7945.3	8046.4
7.5°	9074.9	9054.0	8792.5	8572.9	8290.5	7945.3	7669.9	7513.0	7262.0	7192.3	7244.6
10°	9047.0	8935.4	8628.6	8339.3	7805.9	7502.6	7056.3	6624.0	6386.9	6264.9	6247.5
12.5°	9008.7	8977.3	8464.8	7966.2	7404.9	6766.9	6139.4	5731.5	5344.5	5177.2	5201.6
15°	9054.0	8789.0	8158.0	7527.0	6780.9	5944.2	5267.8	4741.4	4473.0	4364.9	4364.9
17.5°	9033.1	8698.4	8011.6	7035.4	6090.6	5100.5	4357.9	4040.6	3929.1	3929.1	3960.5
20°	9043.5	8757.6	7715.2	6543.8	5274.8	4295.1	3754.8	3639.7	3688.5	3706.0	3723.4
22.5°	9102.8	8562.4	7425.9	6003.4	4518.3	3674.6	3409.6	3413.1	3500.3	3594.4	3577.0
25°	9176.0	8485.7	7073.7	5466.6	3939.5	3371.3	3287.6	3277.1	3343.4	3392.2	3399.2
27.5°	9113.2	8353.2	6714.7	4797.2	3465.4	3169.1	3151.6	3158.6	3179.5	3277.1	3245.8
30°	9318.9	8391.6	6264.9	4235.9	3203.9	3102.8	3081.9	3071.4	3102.8	3130.7	3106.3
32.5°	9573.4	8255.6	5930.2	3695.5	3074.9	3054.0	3012.2	2998.2	3015.7	2987.8	3001.7
35°	9685.0	8231.2	5494.4	3308.5	2973.8	2956.4	2932.0	2928.5	2932.0	2907.6	2886.7
37.5°	9747.8	8346.3	4995.9	3130.7	2911.1	2928.5	2872.7	2865.8	2803.0	2816.9	2827.4
40°	9855.8	8168.5	4591.5	2959.9	2872.7	2837.9	2789.1	2778.6	2736.8	2712.4	2736.8
42.5°	9698.9	8116.2	4194.0	2886.7	2816.9	2778.6	2743.7	2684.5	2670.5	2649.6	2635.7
45°	9573.4	7816.3	3838.4	2796.0	2750.7	2729.8	2663.5	2600.8	2548.5	2569.4	2538.0
47.5°	9667.6	7711.7	3486.3	2719.3	2660.1	2635.7	2569.4	2520.6	2468.3	2443.9	2436.9
50°	10044.1	7907.0	3190.0	2663.5	2583.4	2569.4	2482.3	2426.5	2377.7	2360.2	2367.2
52.5°	10943.6	8440.4	2987.8	2548.5	2510.2	2447.4	2398.6	2328.9	2297.5	2241.7	2276.6
55°	12083.6	9308.5	2935.5	2440.4	2419.5	2363.7	2297.5	2245.2	2185.9	2140.6	2130.1
56°	12449.7	9723.4	2893.6	2398.6	2363.7	2332.3	2245.2	2213.8	2119.7	2109.2	2102.3
57.5°	12746.0	10089.4	2900.6	2318.4	2283.5	2255.6	2203.4	2126.7	2063.9	2025.6	2043.0
60°	12076.6	9444.4	2768.1	2196.4	2189.4	2137.1	2063.9	2029.0	1952.3	1907.0	1896.6
62.5°	8977.3	6411.3	2245.2	2039.5	2036.0	1980.2	1896.6	1858.2	1844.3	1781.5	1781.5
65°	5170.2	4019.7	1941.9	1910.5	1882.6	1826.8	1743.2	1711.8	1676.9	1656.0	1638.6
67.5°	2206.8	2084.8	1764.1	1760.6	1729.2	1659.5	1575.8	1527.0	1481.7	1439.9	1460.8
70°	1600.2	1624.6	1593.2	1575.8	1537.5	1450.3	1377.1	1317.8	1248.1	1220.2	1241.1
72.5°	1269.0	1321.3	1366.6	1370.1	1324.8	1223.7	1143.5	1063.3	986.6	948.3	965.7
75°	962.2	997.1	1042.4	1052.9	986.6	916.9	840.2	756.5	697.3	651.9	658.9
77.5°	693.8	686.8	728.6	721.7	690.3	641.5	571.8	495.1	428.8	387.0	390.5
80°	474.1	484.6	509.0	505.5	467.2	435.8	383.5	320.7	271.9	237.1	230.1
82.5°	331.2	348.6	369.6	352.1	320.7	289.4	251.0	205.7	167.3	139.5	132.5
85°	118.5	136.0	156.9	167.3	177.8	170.8	142.9	115.0	83.7	69.7	66.2
87.5°	24.4	27.9	31.4	31.4	31.4	27.9	24.4	24.4	20.9	10.5	10.5
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)