

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: P652110

Luminaire Tested: **GALN-SA9A-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652110
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-SA9A-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA 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: 29551.9 lumens
Efficiency: N/A
Efficacy: 107.9 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

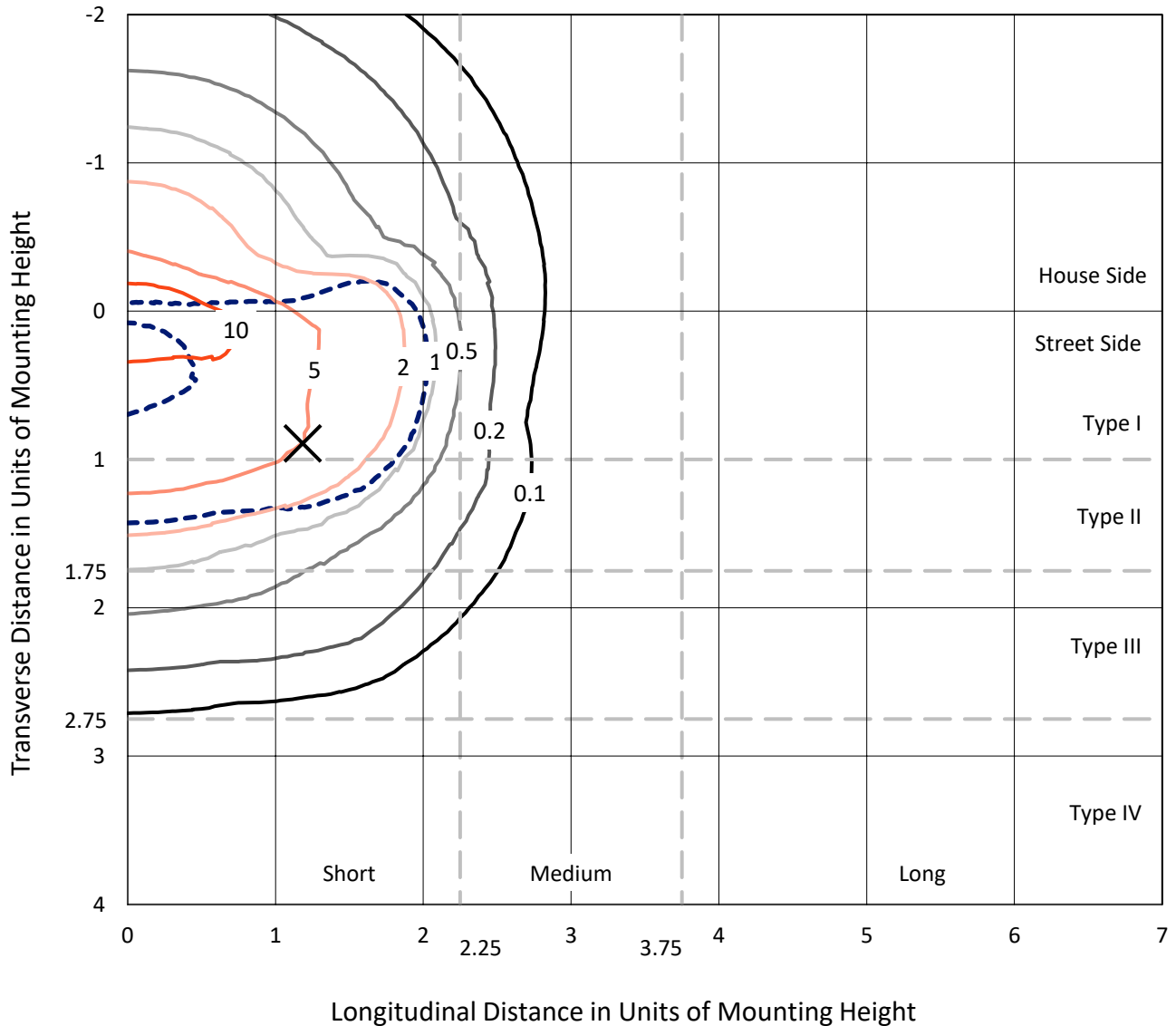
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

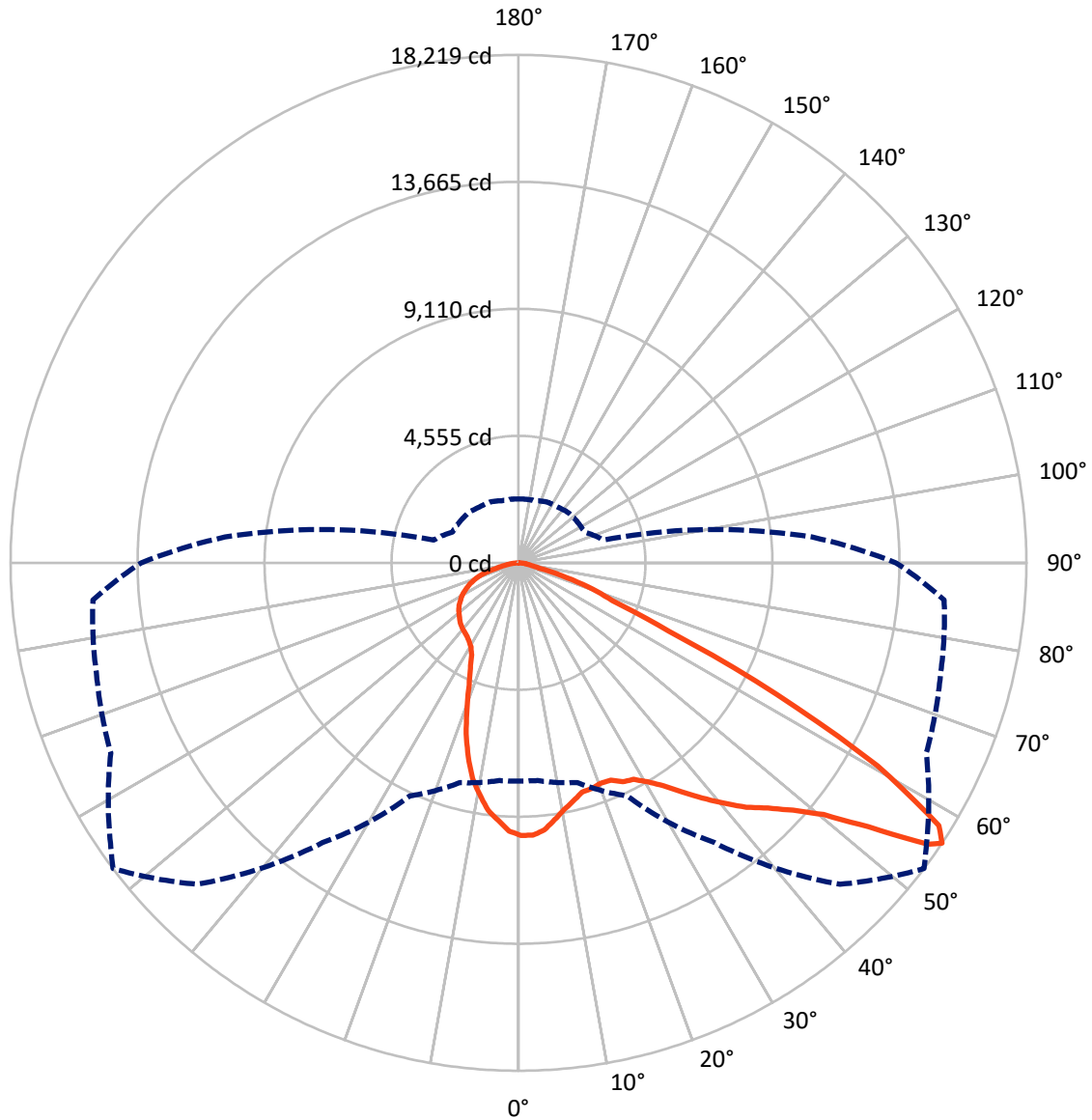
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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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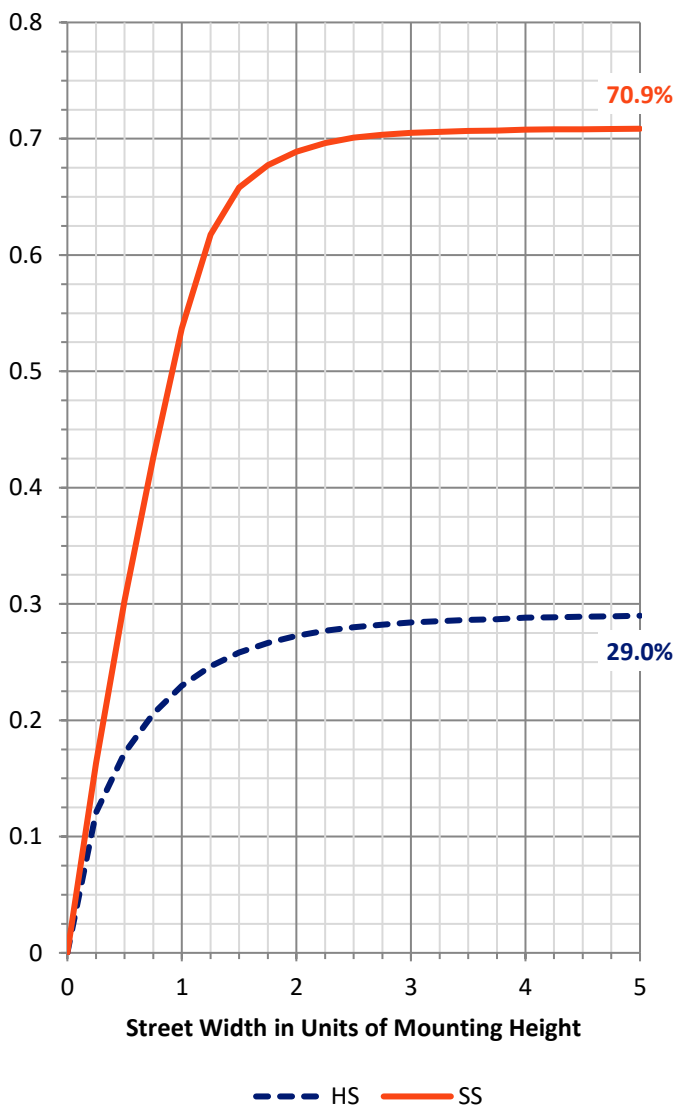
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8623.9	0.0	8623.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	20928.0	0.0	20928.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	29551.9	0.0	29551.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	865.5	2.9
10°-20°	2161.7	7.3
20°-30°	3187.7	10.8
30°-40°	4554.6	15.4
40°-50°	6268.7	21.2
50°-60°	7408.0	25.1
60°-70°	3948.0	13.4
70°-80°	1001.6	3.4
80°-90°	156.2	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°	29551.9	100.0
0°-180°	29551.9	100.0

Coefficient of Utilization



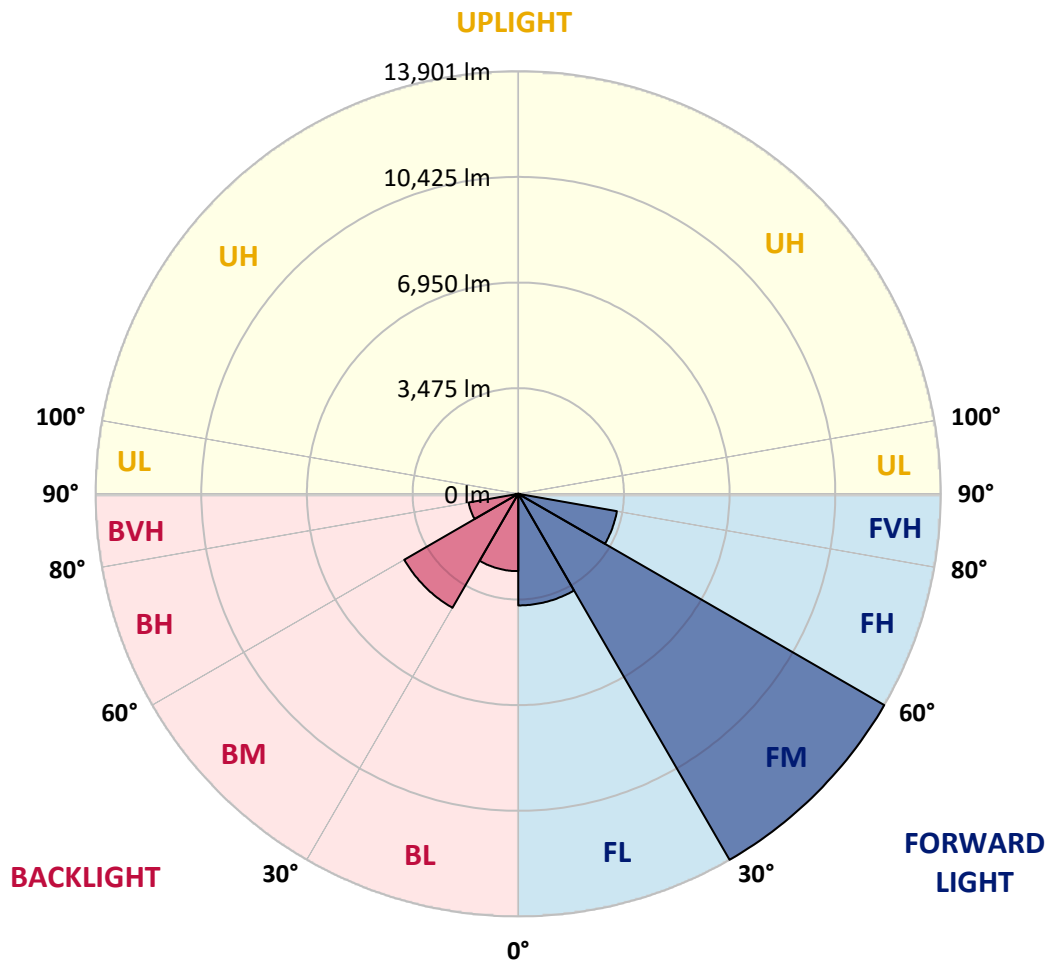
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3671.4	12.4			
FM (30°-60°)	13900.6	47.0			
FH (60°-80°)	3293.2	11.1			G2/5000
FVH (80°-90°)	62.8	0.2			G1/100
BL (0°-30°)	2543.5	8.6	B4/5000		
BM (30°-60°)	4330.6	14.7	B3/5000		
BH (60°-80°)	1656.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	93.4	0.3			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9777.0	9777.0	9777.0	9777.0	9777.0	9777.0	9777.0	9777.0	9777.0	9777.0	9777.0
2.5°	9655.6	9572.3	9621.5	9602.5	9758.0	9803.5	9780.7	9799.7	9886.9	9845.2	9758.0
5°	9022.5	9140.1	9162.8	9219.6	9310.6	9488.8	9629.1	9667.0	9708.7	9902.0	9883.1
7.5°	8446.3	8525.9	8484.2	8651.0	8848.2	9136.3	9306.8	9337.2	9720.1	9826.2	9905.8
10°	8082.3	8002.8	8192.3	8237.8	8461.5	8791.3	8996.0	9121.1	9469.8	9890.7	9939.9
12.5°	7744.9	7718.4	7832.1	7961.1	8211.3	8552.5	8760.9	8810.2	9348.6	9792.1	10023.4
15°	7494.7	7464.5	7578.2	7672.9	7964.9	8268.1	8533.5	8673.7	9215.8	9735.2	9951.3
17.5°	7297.6	7293.8	7358.3	7528.9	7828.4	8082.3	8510.8	8518.3	9147.6	9822.5	10011.9
20°	7286.3	7282.5	7293.8	7483.4	7756.4	8067.2	8438.7	8507.0	9147.6	9761.7	10015.8
22.5°	7381.0	7320.4	7388.6	7510.0	7707.1	8093.7	8465.3	8616.9	9367.5	10061.2	10186.4
25°	7532.7	7547.8	7585.7	7627.4	7741.2	8154.4	8700.3	8825.4	9625.3	10319.1	10421.4
27.5°	7809.4	7801.9	7817.0	7839.7	7938.3	8211.3	8795.1	9117.3	10163.7	10777.8	10675.4
30°	8215.1	8188.5	8249.2	8328.8	8237.8	8393.3	9109.7	9352.3	10664.0	11240.2	10959.7
32.5°	8582.7	8681.3	8795.1	8829.2	8719.2	8749.6	9526.8	9773.2	11081.0	11808.9	11308.5
35°	9041.5	9121.1	9272.7	9378.9	9359.9	9268.9	10095.4	10421.4	11683.8	12225.9	11676.2
37.5°	9488.8	9583.6	9833.8	10148.4	9974.1	9932.4	10701.9	10971.1	11869.5	12449.6	11945.4
40°	10209.1	10205.3	10637.5	10800.5	10956.0	10883.9	11331.2	11422.2	11968.1	12400.3	11953.0
42.5°	11054.5	11001.5	11441.1	11695.2	11896.1	11903.7	11987.1	11956.7	12013.6	12150.1	11873.3
45°	11858.2	11971.9	12415.4	12870.4	13071.3	13094.0	12540.6	12483.7	12093.2	12078.0	11721.7
47.5°	12840.1	12866.5	13230.5	13829.5	14295.7	14136.5	13257.0	13132.0	12442.0	12559.5	11975.7
50°	12896.9	13094.0	13420.1	14125.2	15558.2	15516.4	14185.8	13950.8	13003.0	13241.9	12684.6
52.5°	11706.6	11661.1	12047.7	13200.2	15463.4	16888.8	15725.0	15163.9	14208.6	14026.6	13833.3
55°	8920.2	9026.3	9367.5	10531.3	13427.7	16907.8	17821.4	17362.7	15497.5	15186.7	14963.0
56°	7824.6	7839.7	8162.0	9223.4	12252.4	16305.0	18219.4	17848.0	16138.2	15664.3	15323.1
57.5°	6486.4	6399.2	6565.9	7146.0	10341.8	15031.2	17783.4	18147.4	16888.8	16179.9	15706.0
60°	5106.5	5087.5	5019.3	5125.4	6535.7	11323.6	14803.8	15622.6	16813.0	15694.7	15042.6
62.5°	4170.1	4075.3	4211.8	4363.4	4541.6	7024.7	10402.4	10883.9	13348.0	12529.2	11300.9
65°	3233.7	3188.2	3358.8	3851.6	3957.7	4462.0	5925.3	6296.8	7881.4	7741.2	6816.2
67.5°	2225.3	2232.9	2380.7	3131.4	3669.7	3624.2	3628.0	3821.3	4113.2	3055.5	2661.3
70°	1410.3	1406.5	1486.0	2016.8	2953.2	2983.5	2831.9	2775.0	2630.9	1592.2	1687.0
72.5°	906.0	879.5	921.2	1114.6	1527.8	1766.6	1819.7	1853.8	1524.0	1251.0	1357.2
75°	511.7	485.3	470.1	519.4	602.7	697.5	765.8	788.5	883.3	947.7	1004.6
77.5°	155.4	140.3	170.6	227.5	299.5	401.8	489.0	504.2	595.2	671.0	727.9
80°	68.2	75.9	106.1	151.6	212.3	284.3	345.0	367.7	428.4	485.3	500.4
82.5°	41.7	45.5	72.0	102.3	147.8	200.9	246.4	254.0	314.6	360.1	371.6
85°	15.1	18.9	37.9	60.6	94.8	128.9	128.9	140.3	128.9	128.9	140.3
87.5°	0.0	0.0	3.8	7.6	7.6	11.4	15.1	15.1	18.9	22.7	26.6
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°	9777.0	9777.0	9777.0	9777.0	9777.0	9777.0	9777.0	9777.0	9777.0	9777.0	9777.0
2.5°	9803.5	9784.5	9754.2	9644.3	9632.9	9598.8	9409.2	9378.9	9409.2	9318.2	9325.8
5°	9784.5	9841.4	9613.9	9504.0	9299.3	9151.4	8980.8	8893.7	8738.2	8639.7	8749.6
7.5°	9868.0	9845.2	9560.8	9322.0	9014.9	8639.7	8340.1	8169.6	7896.6	7820.8	7877.6
10°	9837.6	9716.2	9382.7	9068.0	8488.0	8158.2	7672.9	7202.8	6945.1	6812.4	6793.4
12.5°	9795.9	9761.7	9204.5	8662.4	8052.1	7358.3	6675.9	6232.4	5811.6	5629.6	5656.1
15°	9845.2	9557.0	8870.9	8184.7	7373.5	6463.6	5728.1	5155.8	4863.8	4746.3	4746.3
17.5°	9822.5	9458.5	8711.7	7650.2	6622.9	5546.2	4738.7	4393.7	4272.4	4272.4	4306.6
20°	9833.8	9522.9	8389.4	7115.7	5735.8	4670.5	4082.9	3957.7	4010.8	4029.8	4048.7
22.5°	9898.2	9310.6	8074.8	6528.1	4913.1	3995.7	3707.5	3711.3	3806.1	3908.5	3889.5
25°	9977.9	9227.2	7691.9	5944.3	4283.8	3665.8	3574.9	3563.5	3635.6	3688.6	3696.2
27.5°	9909.6	9083.2	7301.4	5216.4	3768.3	3446.0	3427.1	3434.6	3457.4	3563.5	3529.4
30°	10133.3	9124.8	6812.4	4606.1	3483.9	3374.0	3351.2	3339.9	3374.0	3404.3	3377.8
32.5°	10410.1	8977.0	6448.5	4018.5	3343.6	3320.9	3275.4	3260.2	3279.2	3248.9	3264.0
35°	10531.3	8950.5	5974.5	3597.6	3233.7	3214.7	3188.2	3184.4	3188.2	3161.7	3138.9
37.5°	10599.5	9075.6	5432.4	3404.3	3165.4	3184.4	3123.7	3116.2	3048.0	3063.1	3074.4
40°	10717.1	8882.2	4992.7	3218.5	3123.7	3085.9	3032.8	3021.4	2975.9	2949.4	2975.9
42.5°	10546.5	8825.4	4560.6	3138.9	3063.1	3021.4	2983.5	2919.0	2903.9	2881.2	2866.0
45°	10410.1	8499.4	4173.9	3040.4	2991.1	2968.3	2896.3	2828.0	2771.2	2794.0	2759.8
47.5°	10512.4	8385.6	3791.0	2957.0	2892.5	2866.0	2794.0	2740.9	2684.1	2657.5	2649.9
50°	10921.8	8598.0	3468.7	2896.3	2809.1	2794.0	2699.2	2638.6	2585.5	2566.5	2574.0
52.5°	11899.9	9177.9	3248.9	2771.2	2729.5	2661.3	2608.2	2532.3	2498.3	2437.6	2475.5
55°	13139.5	10121.9	3192.0	2653.7	2630.9	2570.3	2498.3	2441.4	2376.9	2327.6	2316.3
56°	13537.6	10573.1	3146.5	2608.2	2570.3	2536.2	2441.4	2407.3	2304.9	2293.6	2285.9
57.5°	13859.8	10971.1	3154.1	2521.0	2483.1	2452.8	2395.9	2312.5	2244.3	2202.6	2221.5
60°	13132.0	10269.8	3010.0	2388.4	2380.7	2323.9	2244.3	2206.4	2122.9	2073.7	2062.3
62.5°	9761.7	6971.6	2441.4	2217.7	2213.9	2153.3	2062.3	2020.6	2005.4	1937.2	1937.2
65°	5622.0	4371.0	2111.6	2077.4	2047.2	1986.4	1895.5	1861.4	1823.5	1800.7	1781.7
67.5°	2399.7	2267.0	1918.2	1914.5	1880.3	1804.5	1713.5	1660.5	1611.2	1565.7	1588.4
70°	1740.0	1766.6	1732.5	1713.5	1671.8	1577.0	1497.4	1433.0	1357.2	1326.8	1349.6
72.5°	1379.9	1436.8	1486.0	1489.8	1440.5	1330.6	1243.4	1156.2	1072.9	1031.2	1050.1
75°	1046.3	1084.2	1133.5	1144.9	1072.9	997.0	913.7	822.7	758.2	708.9	716.5
77.5°	754.4	746.8	792.3	784.7	750.6	697.5	621.8	538.3	466.3	420.8	424.6
80°	515.5	527.0	553.5	549.7	508.0	473.9	417.0	348.8	295.7	257.8	250.2
82.5°	360.1	379.1	401.8	382.9	348.8	314.6	273.0	223.7	182.0	151.6	144.1
85°	128.9	147.8	170.6	182.0	193.3	185.8	155.4	125.1	91.0	75.9	72.0
87.5°	26.6	30.4	34.1	34.1	34.1	30.4	26.6	26.6	22.7	11.4	11.4
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)