

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: P651430

Luminaire Tested: **GALN-SA5D-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32508.9 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

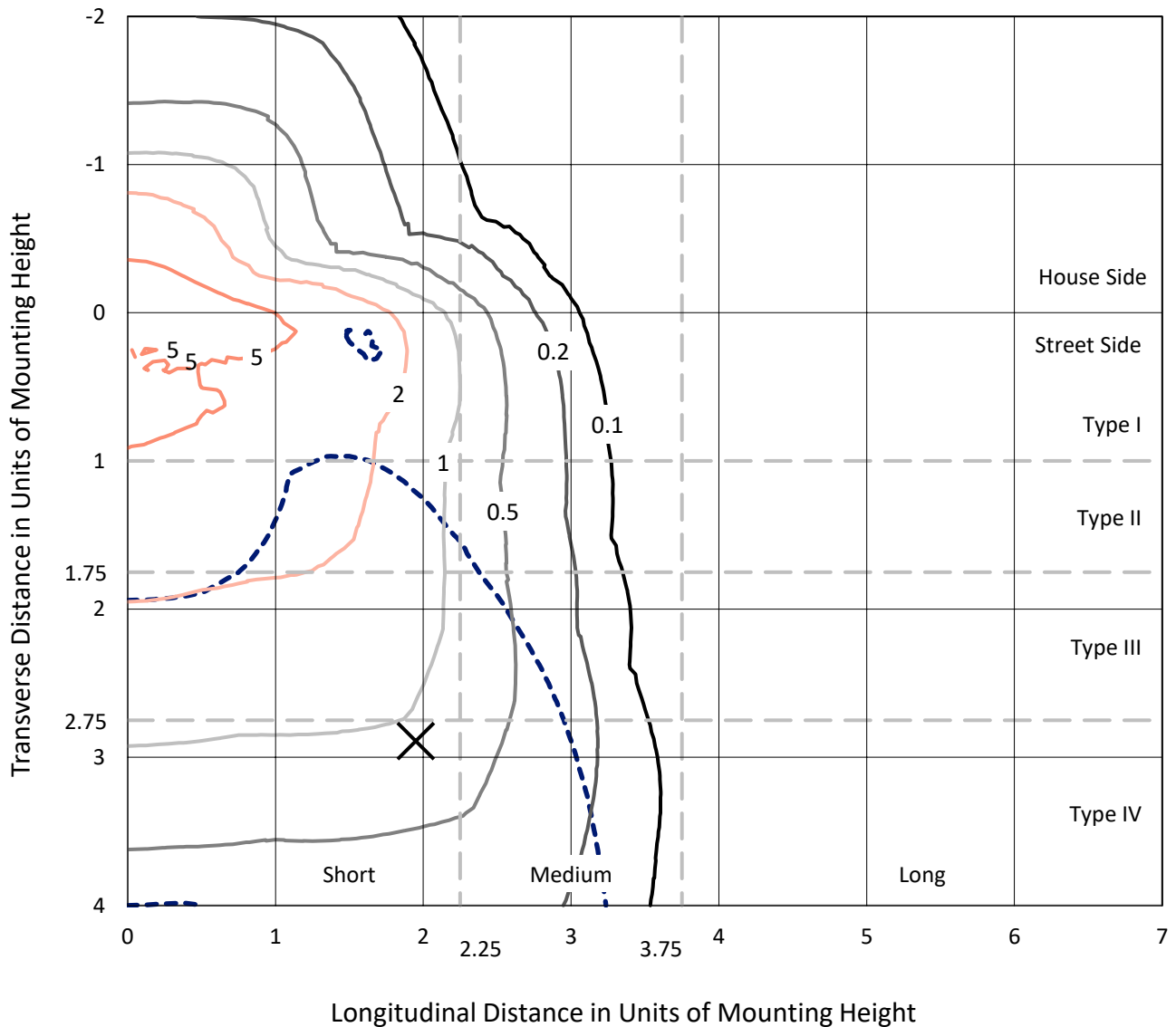
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651430
 CATALOG NUMBER: GALN-SA5D-840-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

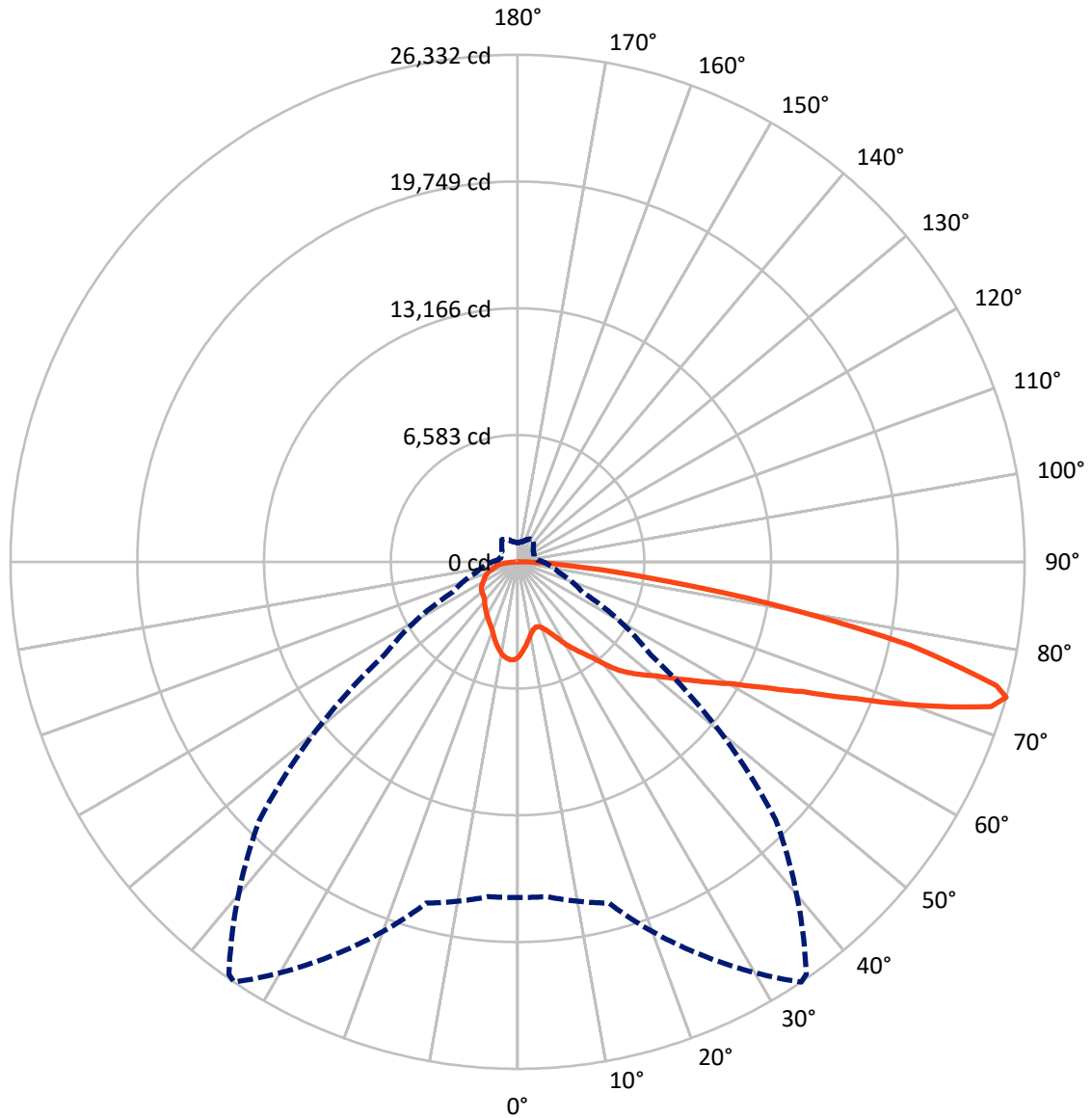
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P651430
CATALOG NUMBER: GALN-SA5D-840-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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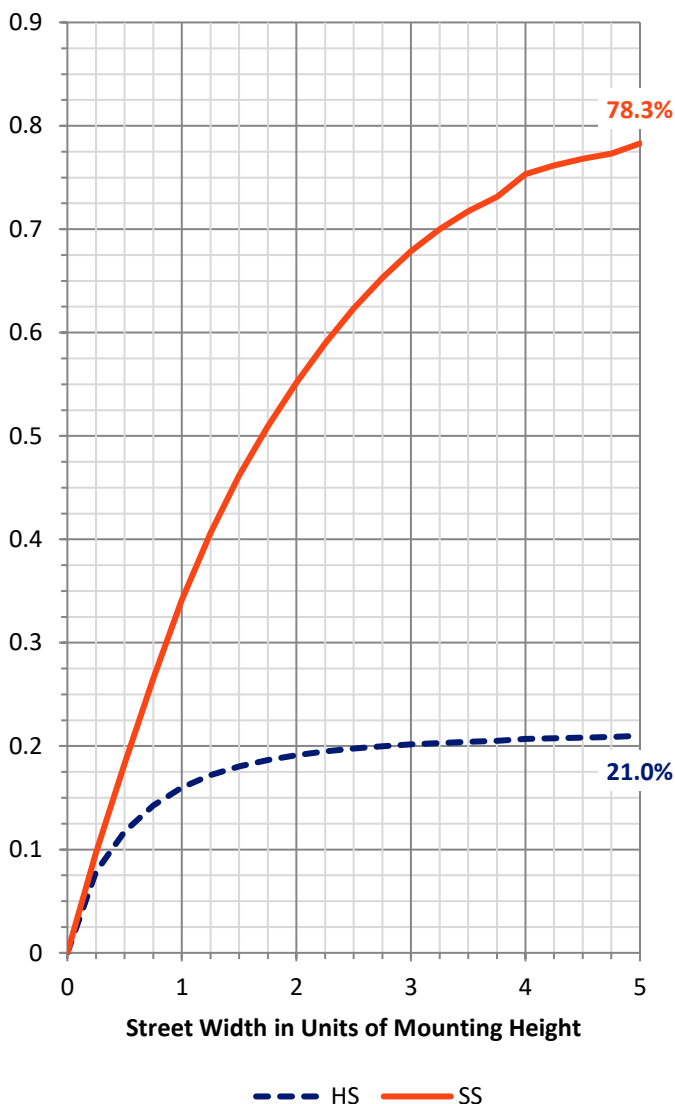
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6918.1	0.0	6918.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	25590.7	0.0	25590.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	32508.9	0.0	32508.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.4	1.4
10°-20°	1235.7	3.8
20°-30°	2037.4	6.3
30°-40°	3051.7	9.4
40°-50°	4436.4	13.6
50°-60°	6196.6	19.1
60°-70°	7757.8	23.9
70°-80°	6415.0	19.7
80°-90°	926.9	2.9
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°	32508.9	100.0
0°-180°	32508.9	100.0

Coefficient of Utilization



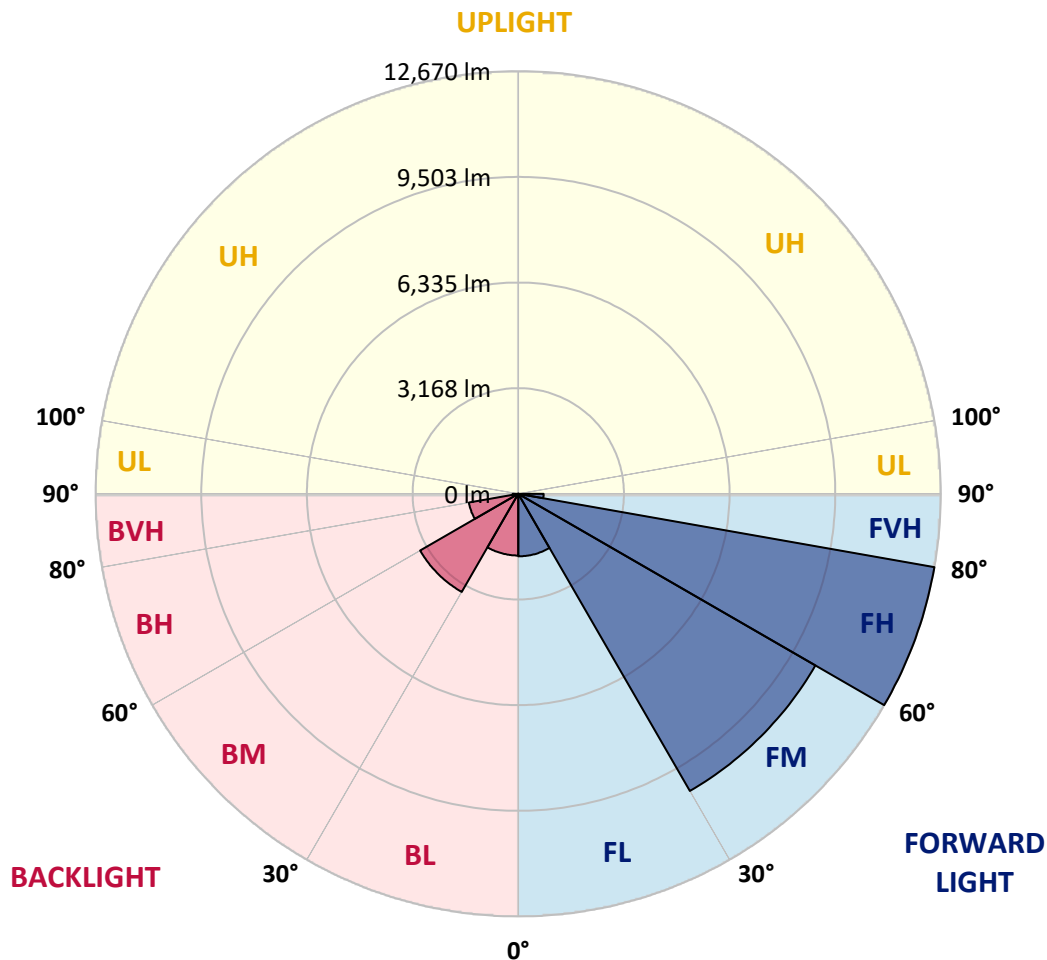
REPORT NUMBER: P651430
 CATALOG NUMBER: GALN-SA5D-840-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1874.0	5.8			
FM (30°-60°)	10287.1	31.6			
FH (60°-80°)	12670.2	39.0			G5
FVH (80°-90°)	759.4	2.3			G5
BL (0°-30°)	1850.5	5.7	B3/2500		
BM (30°-60°)	3397.5	10.5	B3/5000		
BH (60°-80°)	1502.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	167.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4963.5	4963.5	4963.5	4963.5	4963.5	4963.5	4963.5	4963.5	4963.5	4963.5	4963.5
2.5°	4587.1	4610.4	4623.1	4668.1	4678.9	4693.3	4731.1	4781.6	4846.4	4904.0	4954.4
5°	4205.3	4241.2	4262.9	4302.5	4379.9	4387.2	4488.0	4603.3	4734.7	4857.2	4958.0
7.5°	3843.3	3882.9	3900.9	3973.0	4075.6	4091.8	4239.5	4421.4	4641.1	4826.6	4981.5
10°	3571.3	3591.2	3630.8	3684.8	3807.2	3818.1	4010.7	4253.9	4538.5	4812.2	5021.1
12.5°	3423.6	3434.5	3443.5	3501.1	3621.8	3637.9	3839.7	4115.2	4457.4	4823.0	5085.9
15°	3445.2	3448.9	3409.2	3420.0	3517.3	3540.7	3740.6	4023.3	4406.9	4850.0	5183.2
17.5°	3627.1	3614.5	3517.3	3466.9	3535.3	3546.1	3720.8	3987.3	4383.5	4900.4	5284.0
20°	3913.5	3895.5	3728.0	3616.3	3656.0	3665.0	3785.6	4014.3	4406.9	4983.3	5440.7
22.5°	4270.1	4262.9	4009.0	3873.9	3872.0	3872.0	3935.1	4111.6	4477.2	5096.7	5604.6
25°	4769.0	4731.1	4399.8	4225.1	4176.4	4172.9	4165.6	4271.9	4567.2	5217.4	5799.1
27.5°	5280.5	5215.6	4920.3	4651.9	4547.5	4534.8	4488.0	4498.8	4682.5	5354.3	6020.6
30°	5739.7	5698.3	5420.9	5123.7	4999.5	4970.6	4841.0	4781.6	4875.2	5601.0	6373.6
32.5°	6090.9	6065.6	5849.6	5579.4	5395.7	5390.3	5201.2	5152.6	5175.9	5900.0	6777.0
35°	6375.5	6384.5	6274.5	6040.4	5829.7	5799.1	5673.0	5611.8	5543.4	6332.2	7284.9
37.5°	6764.4	6784.3	6777.0	6575.4	6317.8	6325.0	6296.1	6195.3	6013.4	6814.9	7848.6
40°	7193.1	7207.5	7205.7	7128.2	6993.2	7000.3	6989.6	6874.2	6602.4	7429.0	8475.3
42.5°	7785.6	7717.1	7538.8	7616.3	7695.5	7729.7	7803.6	7693.7	7320.9	8084.5	9064.3
45°	8448.3	8318.7	7915.2	7951.2	8244.8	8309.7	8716.6	8565.4	8100.8	8837.3	9757.6
47.5°	8866.2	8738.2	8397.9	8390.7	8779.7	8842.8	9563.1	9507.3	8810.3	9649.5	10604.1
50°	9239.0	9221.0	8837.3	8929.1	9309.2	9402.8	10485.3	10433.0	9518.1	10607.7	11526.2
52.5°	9791.8	9645.9	9339.8	9528.9	10031.4	10153.8	11400.1	11247.0	10168.3	11454.2	12421.2
55°	10040.4	10006.1	9988.1	10152.0	10841.8	10930.1	12289.8	11938.6	10722.9	12171.0	13102.0
57.5°	10704.9	10641.9	10820.2	10931.8	11796.3	11931.4	13219.1	12660.8	11209.2	12740.1	13433.4
60°	11565.8	11531.5	11695.5	11897.2	12862.5	13067.8	14278.1	13276.7	11600.0	13026.4	13251.5
62.5°	12851.7	12848.1	12817.4	13249.7	14373.5	14562.6	15493.7	13876.4	11661.2	12812.0	12311.4
65°	14695.9	14631.0	14364.5	14836.3	16253.7	16475.2	16759.8	14211.4	11292.0	11711.7	10366.3
67.5°	16624.7	16621.1	16405.0	17017.3	18953.4	19182.1	18342.8	14137.5	10267.3	9487.5	7362.4
70°	18224.0	18146.5	18422.1	20053.7	22402.2	22667.0	19727.8	13267.7	8178.2	6265.5	4374.5
72.5°	18607.5	18611.2	19183.9	22395.0	25714.2	25755.6	20226.6	10753.5	5473.1	3456.1	2188.2
74°	17426.1	17456.7	18344.6	22512.1	26331.9	26144.6	18951.5	8452.0	3701.0	2256.6	1577.6
75°	15906.1	15713.4	16997.5	21732.3	25690.8	25489.0	17458.6	6782.4	2823.9	1802.8	1381.3
77.5°	8504.2	8700.5	10681.5	16217.7	20871.3	20639.1	11837.7	3252.6	1525.4	1255.3	994.1
80°	3027.4	3339.0	4693.3	8486.1	13381.2	13453.2	5649.6	1491.2	1073.4	925.7	702.4
82.5°	1235.4	1269.7	2015.3	3765.8	6795.0	6859.9	2307.0	886.1	767.2	637.6	419.7
85°	482.6	497.0	891.5	1692.9	2899.5	3088.7	797.9	468.3	471.9	365.6	214.3
87.5°	162.1	183.7	365.6	563.7	985.1	965.3	232.3	138.7	169.3	158.4	66.6
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°	4963.5	4963.5	4963.5	4963.5	4963.5	4963.5	4963.5	4963.5	4963.5	4963.5	4963.5
2.5°	4979.6	5013.9	5037.3	5062.5	5085.9	5093.1	5087.7	5103.9	5105.7	5107.6	5109.3
5°	5008.5	5055.3	5100.3	5125.6	5136.3	5127.3	5096.7	5080.5	5066.1	5055.3	5059.0
7.5°	5048.1	5114.7	5156.2	5166.9	5138.2	5096.7	5021.1	4961.6	4923.8	4898.7	4896.8
10°	5109.3	5174.2	5208.4	5177.8	5098.6	4997.6	4878.8	4767.1	4682.5	4657.3	4655.5
12.5°	5186.8	5260.6	5258.9	5168.8	5030.1	4850.0	4657.3	4527.6	4412.4	4354.7	4378.2
15°	5287.6	5343.5	5291.2	5129.2	4909.4	4662.7	4425.0	4248.5	4118.8	4057.6	4061.2
17.5°	5404.7	5453.3	5314.6	5059.0	4740.1	4423.2	4147.6	3980.1	3877.5	3832.4	3828.8
20°	5550.6	5565.0	5314.6	4936.4	4522.2	4144.0	3881.0	3764.0	3706.4	3683.0	3690.1
22.5°	5707.3	5678.4	5285.9	4763.6	4235.9	3852.3	3675.8	3623.5	3594.7	3591.2	3594.7
25°	5883.7	5802.7	5226.4	4529.5	3936.9	3600.2	3497.5	3506.5	3511.8	3511.8	3524.5
27.5°	6099.9	5937.8	5127.3	4234.1	3587.5	3366.0	3337.2	3400.2	3429.0	3434.5	3443.5
30°	6384.5	6085.5	4963.5	3864.9	3290.3	3155.3	3205.7	3290.3	3322.8	3342.6	3339.0
32.5°	6723.0	6247.5	4742.0	3495.7	3050.8	3007.6	3068.8	3155.3	3191.3	3202.1	3187.7
35°	7121.0	6431.2	4450.2	3149.9	2841.9	2867.1	2939.2	2966.2	2998.6	2998.6	3005.8
37.5°	7549.7	6578.9	4093.6	2832.9	2679.8	2771.7	2823.9	2798.7	2784.3	2766.3	2775.3
40°	7985.5	6688.8	3630.8	2519.6	2517.8	2672.6	2687.1	2615.0	2557.4	2539.4	2530.3
42.5°	8365.5	6757.2	3213.0	2276.4	2364.6	2575.4	2586.2	2470.9	2379.1	2325.0	2307.0
45°	8813.9	6836.5	2804.1	2074.7	2222.4	2497.9	2524.9	2370.1	2235.0	2121.5	2092.7
47.5°	9428.0	7016.5	2481.7	1918.1	2119.7	2449.3	2487.2	2287.2	2108.9	1961.2	1937.8
50°	10121.4	7263.3	2231.4	1811.8	2040.5	2406.1	2452.9	2202.6	1991.9	1828.0	1810.0
52.5°	10757.1	7396.6	2015.3	1716.3	1963.1	2326.9	2407.9	2141.4	1876.6	1694.7	1678.5
55°	11104.7	7180.5	1802.8	1622.7	1856.8	2224.2	2344.9	2056.7	1764.9	1624.5	1601.1
57.5°	11151.6	6733.8	1610.1	1521.8	1745.2	2098.1	2227.8	1954.1	1692.9	1575.9	1556.0
60°	10789.6	6067.5	1460.6	1439.0	1631.7	1955.8	2096.4	1864.0	1619.1	1521.8	1502.0
62.5°	9889.1	5343.5	1356.1	1363.3	1516.4	1806.4	1999.1	1777.5	1548.9	1462.4	1444.3
65°	8340.3	4410.5	1255.3	1285.9	1413.7	1689.3	1910.8	1705.5	1478.6	1417.3	1401.2
67.5°	5793.7	3184.1	1172.4	1204.8	1316.5	1570.5	1808.2	1628.1	1399.3	1367.0	1341.7
70°	3207.5	1959.4	1075.1	1113.0	1215.7	1437.2	1692.9	1511.0	1284.1	1269.7	1233.7
72.5°	1685.7	1248.0	965.3	1006.8	1078.8	1266.0	1516.4	1383.1	1170.6	1109.4	1062.6
74°	1316.5	1022.9	891.5	934.7	983.3	1165.2	1412.0	1291.3	1089.6	1017.5	981.5
75°	1147.2	911.3	828.5	884.3	927.5	1096.7	1330.9	1226.4	1044.5	976.1	943.7
77.5°	810.5	682.6	677.2	743.8	767.2	961.7	1199.4	1116.6	931.1	859.1	828.5
80°	569.1	511.5	536.7	578.1	610.6	850.1	1113.0	965.3	763.6	678.9	668.2
82.5°	371.0	335.0	383.6	421.4	432.2	626.7	898.7	733.0	556.5	452.0	419.7
85°	171.1	167.5	219.8	214.3	212.5	306.1	533.1	428.7	320.6	239.5	225.1
87.5°	43.2	41.5	54.0	45.0	54.0	46.8	48.6	12.6	1.8	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)