

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: P647509

Luminaire Tested: **GALN-SA6D-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647509
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-SA6D-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 30128.3 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

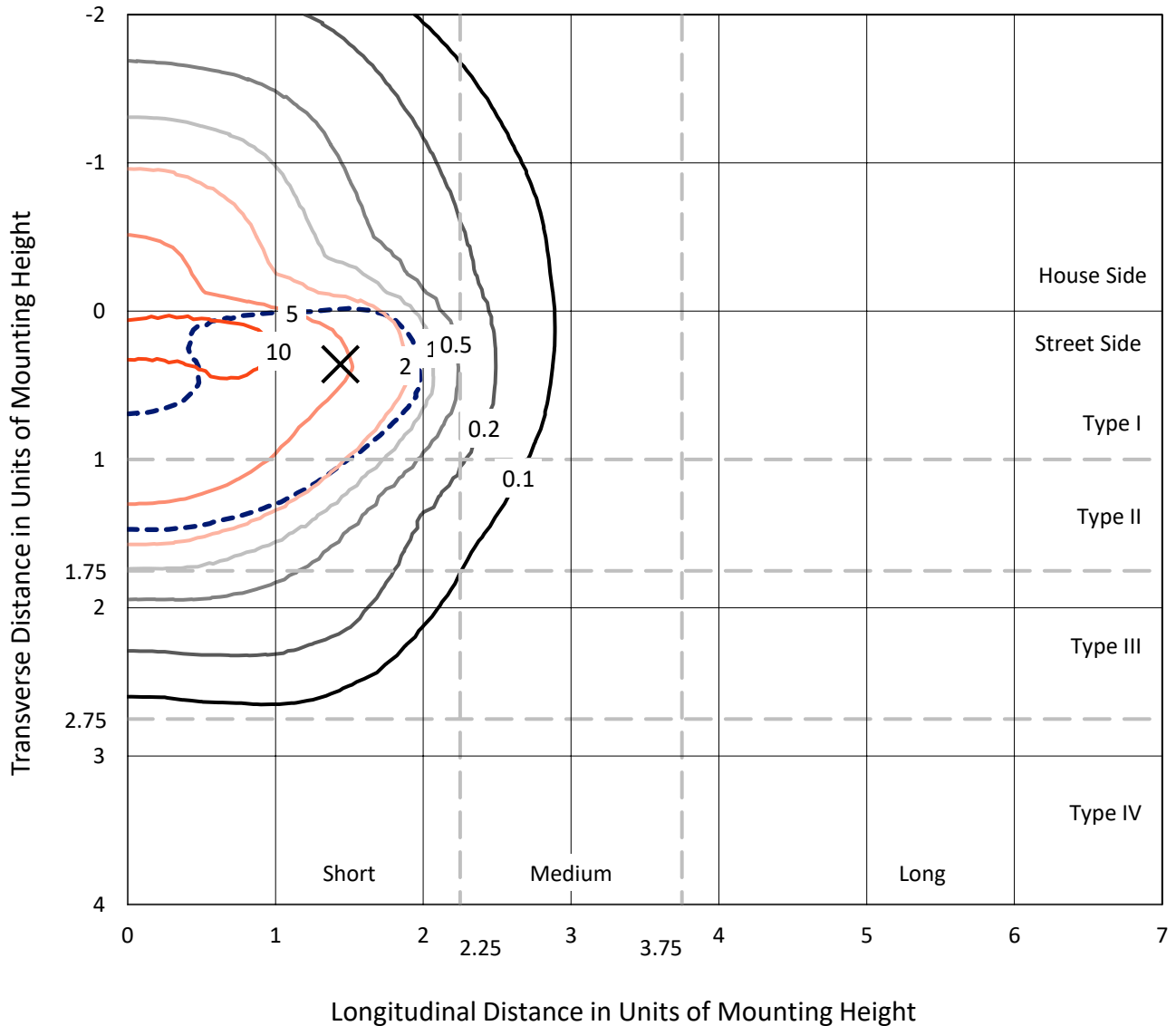
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

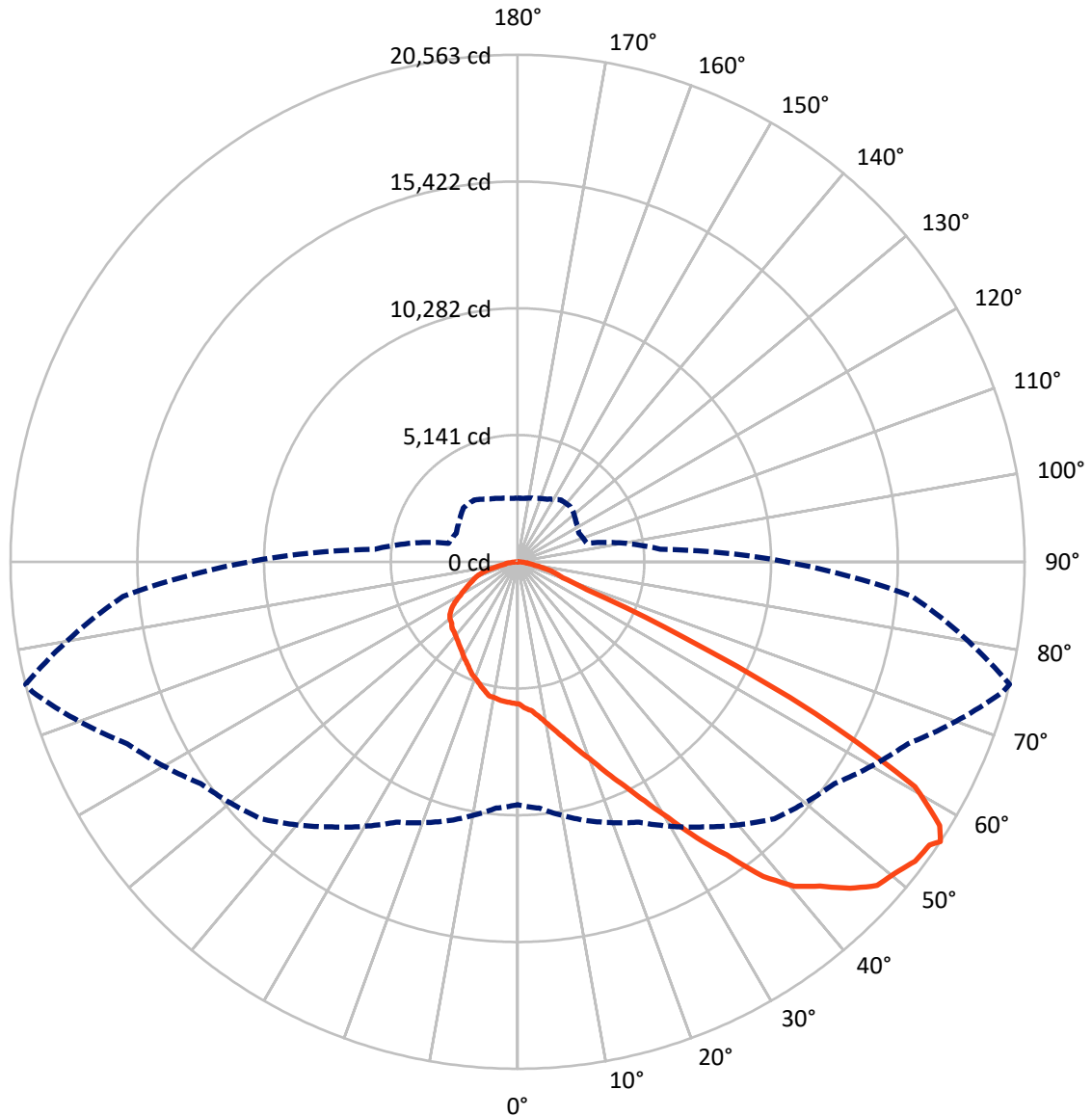
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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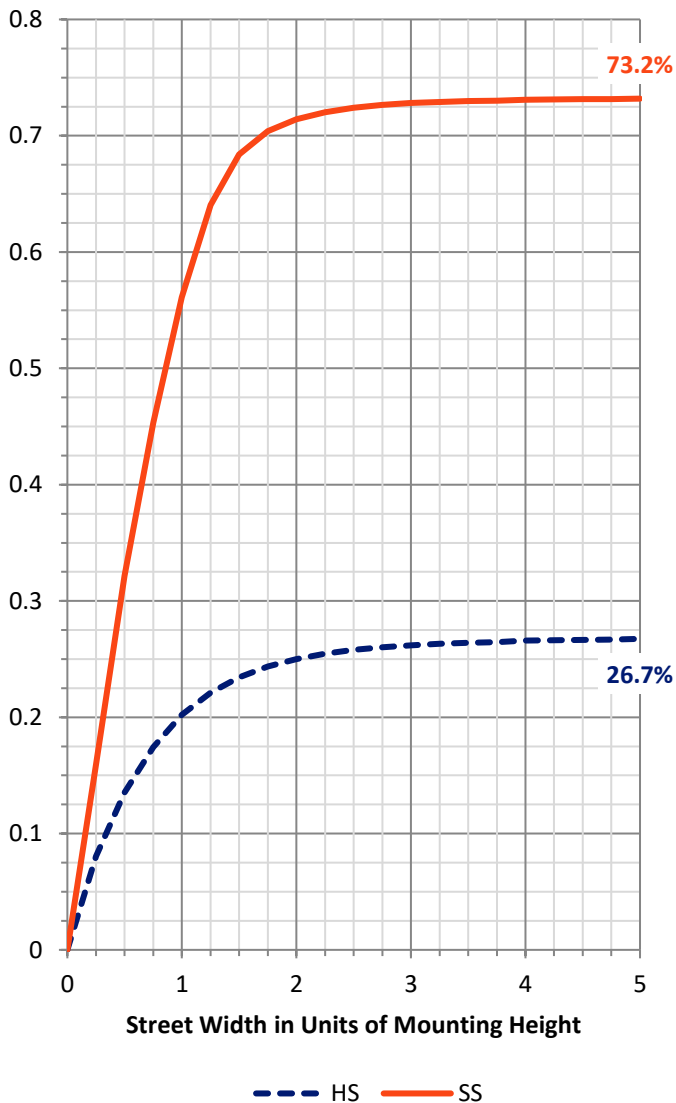
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8100.6	0.0	8100.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	22027.7	0.0	22027.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	30128.3	0.0	30128.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.7	1.9
10°-20°	1795.8	6.0
20°-30°	3140.7	10.4
30°-40°	4917.4	16.3
40°-50°	7153.4	23.7
50°-60°	7862.0	26.1
60°-70°	3509.3	11.6
70°-80°	1013.6	3.4
80°-90°	164.4	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°	30128.3	100.0
0°-180°	30128.3	100.0

Coefficient of Utilization



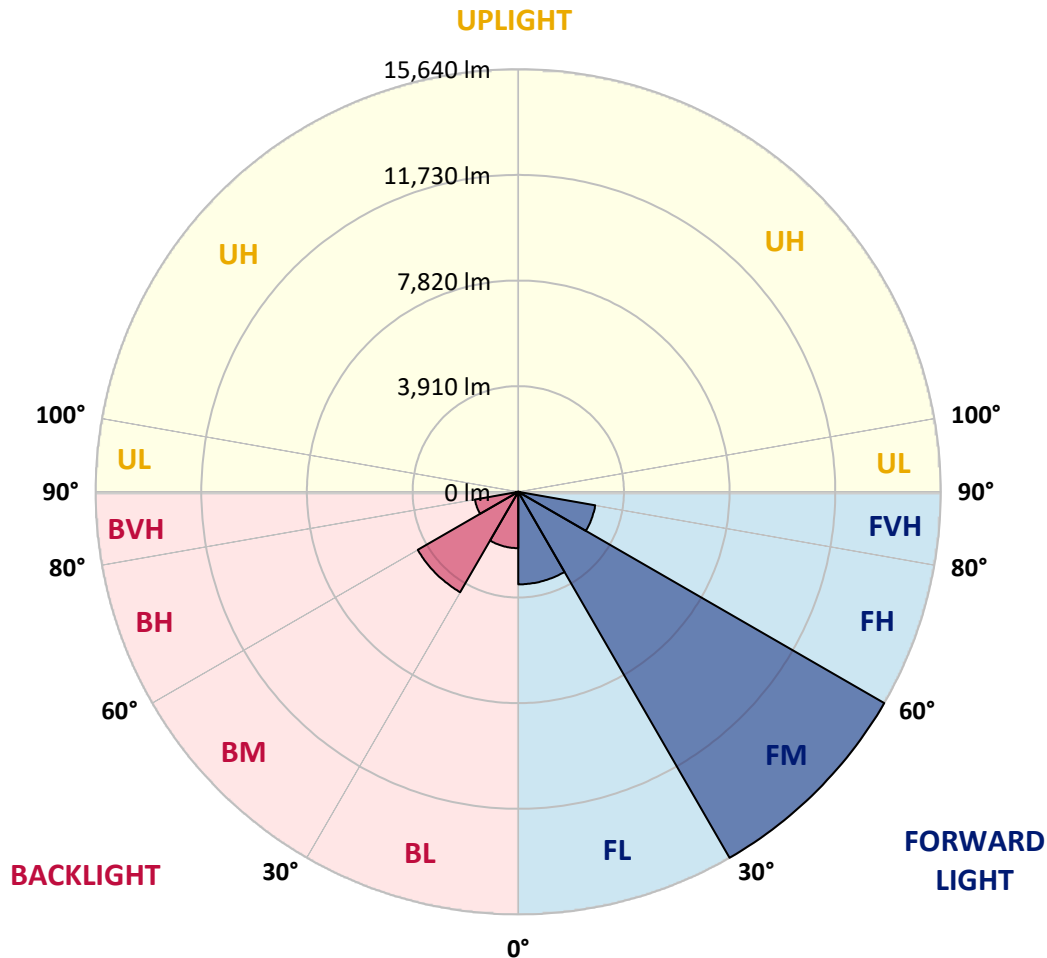
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3423.7	11.4			
FM (30°-60°)	15640.1	51.9			
FH (60°-80°)	2893.0	9.6			G2/5000
FVH (80°-90°)	70.8	0.2			G1/100
BL (0°-30°)	2084.4	6.9	B3/2500		
BM (30°-60°)	4292.7	14.2	B3/5000		
BH (60°-80°)	1629.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	93.6	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°	55°	65°	75°	76°	85°
0°	5764.7	5764.7	5764.7	5764.7	5764.7	5764.7	5764.7	5764.7	5764.7	5764.7	5764.7
2.5°	6350.5	6249.0	6241.1	6213.8	6229.4	6159.2	6084.9	5987.3	5885.7	5948.2	5799.8
5°	6795.7	6659.0	6713.8	6620.0	6631.7	6538.0	6385.7	6272.4	6147.4	6073.2	5967.7
7.5°	6951.9	6963.7	7002.8	6987.1	6909.0	6909.0	6807.5	6608.3	6389.5	6346.6	6170.8
10°	7162.9	7166.8	7123.8	7135.6	7244.9	7194.1	7104.3	7018.3	6737.2	6686.4	6373.9
12.5°	7237.0	7166.8	7237.0	7299.6	7428.5	7498.7	7479.2	7416.7	7116.0	7080.8	6623.9
15°	7248.8	7205.8	7264.4	7405.0	7518.3	7815.1	7963.5	7920.5	7522.2	7526.1	6905.1
17.5°	7194.1	7252.7	7276.1	7397.2	7658.8	7936.2	8365.8	8424.4	8096.3	8045.6	7260.5
20°	7268.3	7225.4	7256.6	7365.9	7713.6	8147.0	8709.5	9096.1	8635.2	8600.2	7627.6
22.5°	7553.4	7494.9	7487.0	7557.4	7807.3	8256.4	9072.7	9767.9	9291.4	9311.0	8084.6
25°	7776.1	7807.3	7780.0	7776.1	7932.3	8420.5	9553.1	10568.5	10181.9	10068.6	8623.6
27.5°	8158.8	8233.0	8178.3	8252.5	8217.4	8666.5	9896.8	11455.1	11142.6	10990.3	9111.8
30°	8690.0	8729.0	8678.2	8678.2	8572.8	9010.2	10209.2	12380.7	12251.8	12044.9	9685.9
32.5°	9389.0	9447.6	9346.1	9287.5	9271.9	9521.8	10771.7	13294.6	13513.3	13337.6	10447.5
35°	10314.7	10279.5	10158.5	10103.8	9892.9	10306.9	11607.4	14345.3	14919.4	14606.9	11369.2
37.5°	11131.0	11076.2	11068.5	10763.8	10814.6	11154.4	12318.2	15142.0	16282.4	16192.6	12341.6
40°	11892.5	11943.3	12025.3	11853.4	11775.4	12150.3	13146.3	15751.3	17340.9	17305.7	13091.5
42.5°	12708.8	12662.0	12806.4	12662.0	12544.8	13075.9	14044.5	16173.1	18270.4	17981.4	13876.6
45°	13892.2	13743.8	13794.6	13806.2	13720.4	13915.6	14415.6	16477.7	18922.6	18891.4	14450.7
47.5°	14880.3	14884.2	14798.3	14731.9	14470.2	14665.5	14829.6	16669.1	19672.5	19621.7	14673.3
50°	15247.4	15196.7	15446.6	15591.2	15606.8	15208.4	15153.7	16774.5	20067.0	19844.4	14895.9
52.5°	13927.4	13974.2	14368.7	15227.9	15723.9	15766.9	15532.5	16993.2	20227.1	20180.2	15075.6
55°	11209.0	11435.6	12083.9	13075.9	14251.5	15544.3	15942.7	17219.7	20313.0	20273.9	15872.3
56°	9853.8	10029.6	10873.2	11650.4	13126.7	14735.8	15684.9	17461.9	20379.4	20563.0	16059.8
57.5°	7932.3	8135.4	8740.7	9623.4	11365.2	13197.0	14974.0	17165.1	20121.6	20191.9	16196.5
60°	4960.1	4979.6	5706.1	6288.0	7514.4	9303.1	11427.8	14935.0	18621.9	18520.3	14548.4
62.5°	3253.4	3257.3	3917.3	4393.8	4952.3	5362.4	6725.4	9904.6	13739.8	13560.2	10357.6
65°	2284.8	2335.5	2847.1	3483.8	3710.3	3495.5	3452.6	5221.7	7674.5	7416.7	5565.5
67.5°	1671.6	1675.5	2128.6	2812.1	3140.1	2659.7	2159.8	2550.4	3038.6	3030.8	2577.7
70°	1105.3	1152.2	1499.8	2101.2	2476.2	2136.3	1765.4	1823.9	1933.3	1933.3	1917.6
72.5°	644.4	687.4	917.8	1331.8	1390.4	1335.7	1398.2	1562.2	1632.6	1628.6	1609.1
75°	367.1	386.6	437.5	554.6	691.3	816.3	1027.1	1183.4	1253.7	1296.6	1245.9
77.5°	214.8	226.5	257.8	316.3	359.3	441.3	558.5	667.8	761.6	749.9	757.7
80°	113.3	113.3	144.5	187.5	249.9	312.4	371.1	433.5	484.3	496.0	507.7
82.5°	66.4	70.3	93.7	136.7	179.6	222.6	285.1	328.1	374.9	378.8	386.6
85°	35.2	39.1	58.6	89.8	121.1	136.7	140.6	132.8	144.5	136.7	156.2
87.5°	11.7	11.7	19.5	15.7	15.7	19.5	23.4	23.4	31.2	31.2	31.2
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°	5764.7	5764.7	5764.7	5764.7	5764.7	5764.7	5764.7	5764.7	5764.7	5764.7	5764.7
2.5°	5795.9	5795.9	5729.5	5604.6	5585.0	5534.2	5487.3	5483.4	5448.3	5417.0	5401.4
5°	5905.2	5784.2	5686.5	5573.3	5440.5	5378.0	5307.7	5229.6	5198.3	5229.6	5225.7
7.5°	6030.3	5928.7	5635.8	5424.9	5272.6	5210.1	5131.9	5050.0	5057.7	5057.7	5003.1
10°	6151.3	6014.6	5545.9	5276.5	5053.9	5007.0	4964.0	4995.2	5034.3	5042.1	5007.0
12.5°	6354.4	6045.9	5503.0	5128.0	4987.5	4885.9	4913.2	4999.1	5081.2	5057.7	5085.1
15°	6506.7	6073.2	5307.7	4975.7	4799.9	4846.8	4944.5	5003.1	5139.8	5124.1	5151.5
17.5°	6655.1	6088.8	5116.4	4772.6	4698.5	4827.4	4901.5	5069.5	5112.4	5206.2	5241.3
20°	6959.8	6120.1	4921.1	4647.7	4624.2	4772.6	4901.5	4979.6	5073.4	5155.4	5155.4
22.5°	7116.0	6104.4	4792.2	4483.6	4557.8	4651.6	4768.7	4901.5	4901.5	4979.6	4983.6
25°	7311.3	6041.9	4589.1	4405.5	4460.2	4550.0	4682.8	4635.9	4686.7	4686.7	4749.2
27.5°	7533.9	5909.1	4413.3	4264.9	4374.2	4471.9	4491.4	4460.2	4401.6	4393.8	4370.4
30°	7713.6	5745.1	4284.4	4218.0	4307.9	4362.6	4300.1	4233.7	4132.1	4124.3	4069.6
32.5°	7959.6	5542.1	4124.3	4100.9	4202.4	4206.4	4186.8	4085.2	3936.8	3874.4	3811.9
35°	8373.6	5424.9	4003.2	4038.4	4069.6	4057.9	4022.7	3913.4	3765.0	3737.7	3714.2
37.5°	8678.2	5339.0	3878.3	3921.2	3948.6	3964.2	3858.7	3737.7	3741.6	3686.9	3671.3
40°	9022.0	5284.2	3776.7	3796.2	3800.1	3851.0	3722.1	3663.4	3690.7	3655.7	3679.1
42.5°	9463.3	5299.9	3671.3	3655.7	3729.8	3710.3	3647.8	3569.7	3585.4	3479.9	3495.5
45°	9697.6	5405.4	3608.8	3538.5	3620.5	3616.6	3534.5	3460.4	3366.6	3163.6	3171.3
47.5°	9853.8	5432.7	3460.4	3413.5	3499.4	3550.2	3456.5	3284.6	3151.8	3007.3	2972.2
50°	10013.9	5483.4	3390.1	3292.4	3327.6	3448.6	3331.5	3167.5	3038.6	2909.7	2929.2
52.5°	10154.6	5581.1	3253.4	3108.8	3171.3	3304.1	3241.6	3042.4	2901.9	2796.4	2765.2
55°	10779.4	5799.8	3022.9	2835.5	2983.9	3151.8	3116.7	2874.5	2722.2	2667.5	2659.7
56°	10877.0	5807.6	2901.9	2741.8	2878.4	3101.1	3058.1	2800.3	2663.6	2577.7	2581.6
57.5°	10892.7	5713.9	2730.0	2655.8	2773.0	3026.8	2972.2	2741.8	2554.2	2476.2	2452.7
60°	9584.3	4460.2	2515.2	2468.3	2605.0	2800.3	2780.7	2581.6	2370.7	2280.9	2323.9
62.5°	6534.1	3268.9	2347.3	2339.4	2409.8	2601.1	2550.4	2370.7	2194.9	2136.3	2109.0
65°	3804.0	2480.1	2183.2	2152.0	2210.6	2312.1	2347.3	2159.8	1976.2	1937.1	1925.5
67.5°	2245.7	2050.4	1972.3	1921.6	1902.1	1964.5	1991.9	1882.5	1699.0	1644.2	1691.1
70°	1878.6	1823.9	1827.8	1741.9	1695.0	1652.1	1628.6	1531.0	1378.7	1308.4	1288.8
72.5°	1620.8	1597.4	1581.7	1503.7	1460.7	1363.0	1261.5	1163.9	1050.6	992.0	995.9
75°	1238.1	1230.2	1238.1	1199.0	1124.8	1046.7	953.0	828.0	742.0	667.8	683.5
77.5°	738.1	761.6	773.3	757.7	726.5	656.2	597.6	515.5	433.5	374.9	367.1
80°	507.7	527.3	546.8	527.3	496.0	445.2	382.7	320.2	261.7	230.4	222.6
82.5°	386.6	406.2	417.9	398.4	359.3	304.7	261.7	218.7	171.9	140.6	132.8
85°	140.6	160.1	156.2	187.5	203.1	195.3	168.0	128.9	97.6	70.3	66.4
87.5°	39.1	35.2	39.1	39.1	39.1	35.2	31.2	31.2	31.2	19.5	15.7
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)