

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: P651428

Luminaire Tested: **GALN-SA5D-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32309.5 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

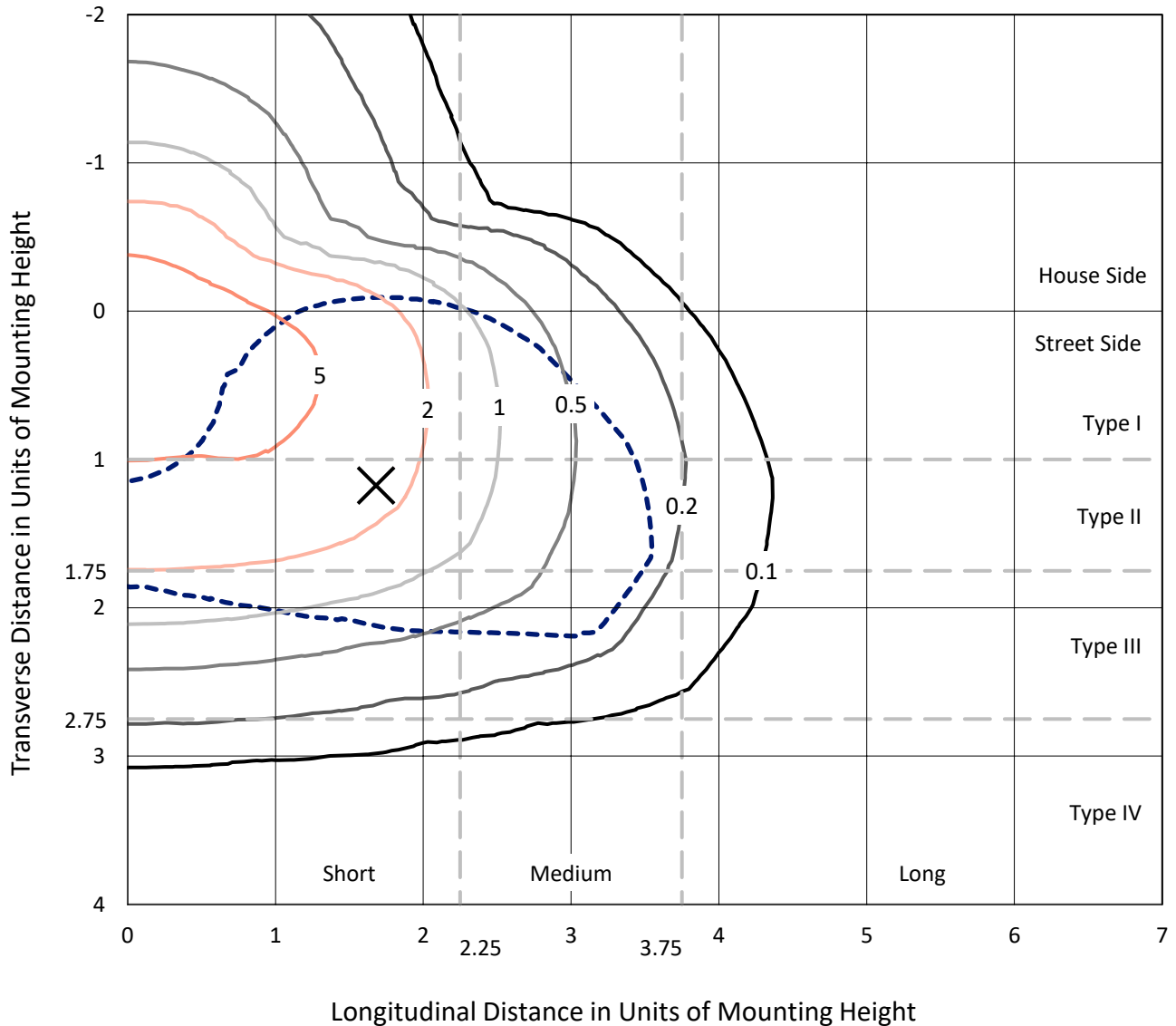
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

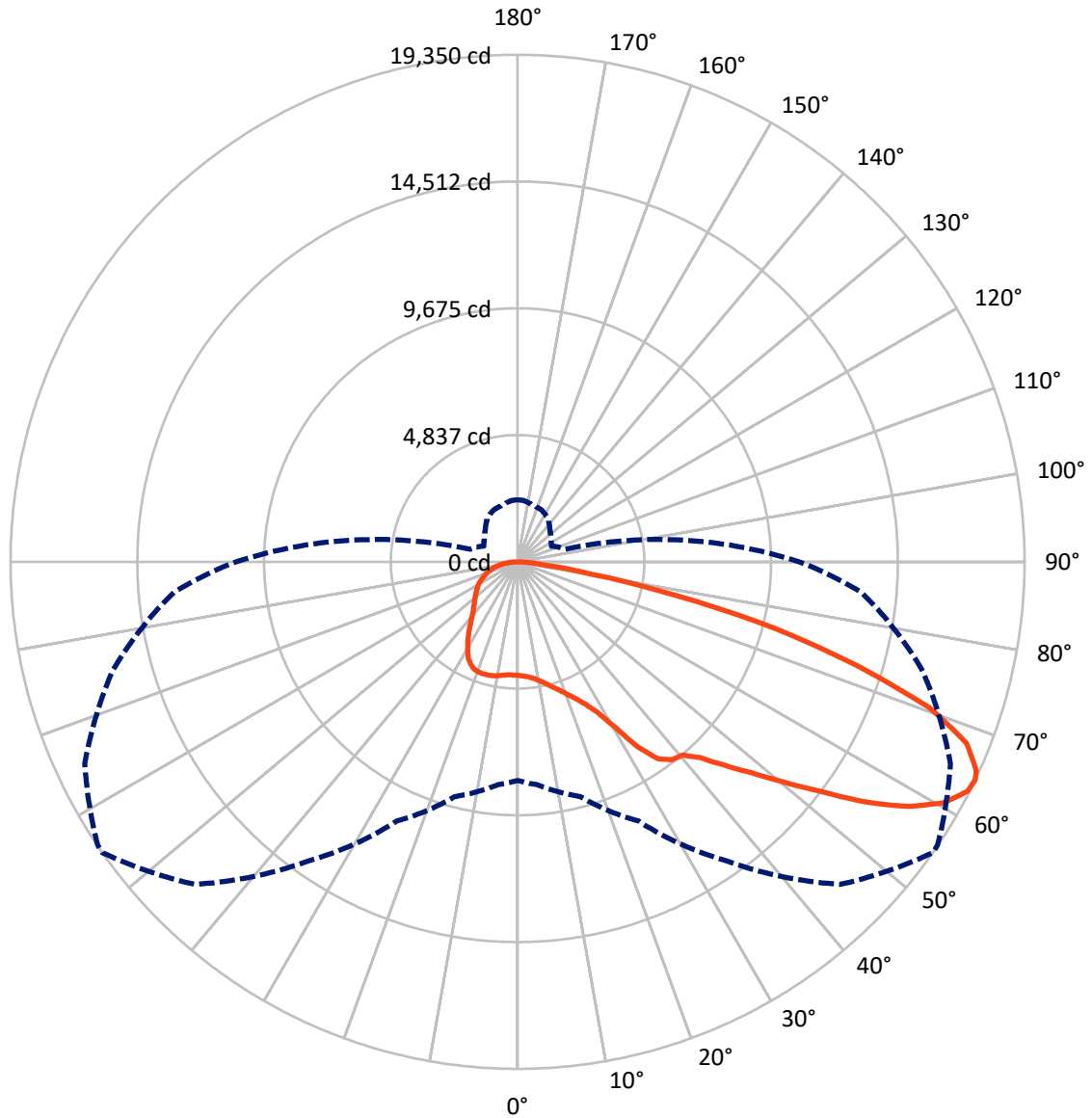
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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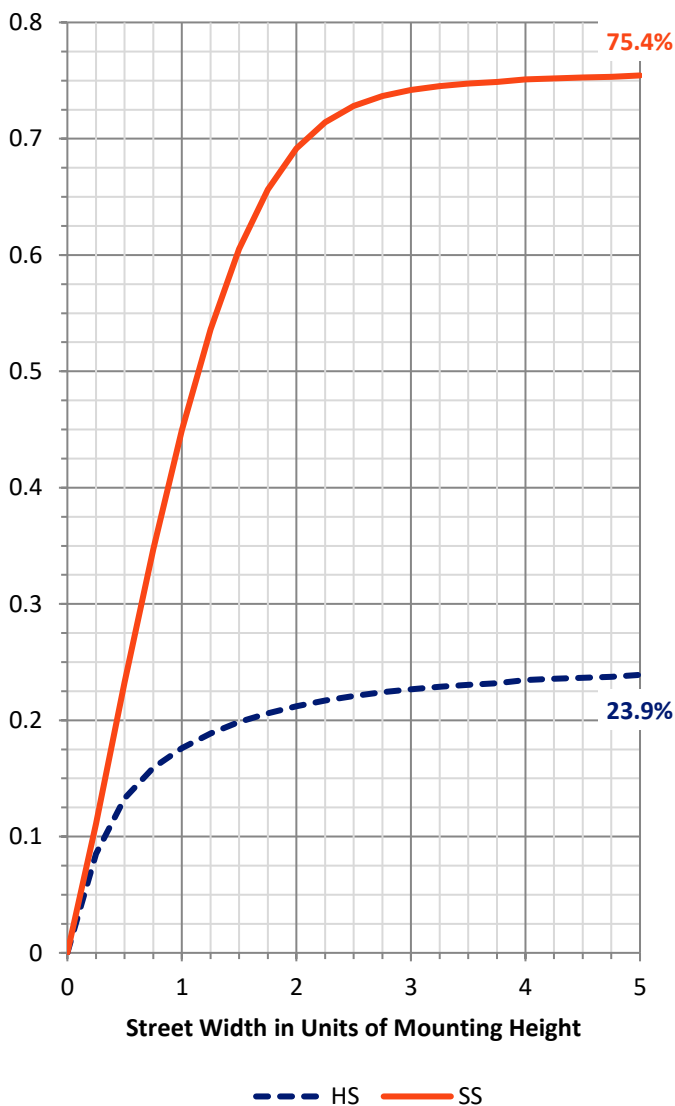
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7848.6	0.0	7848.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	24460.9	0.0	24460.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	32309.5	0.0	32309.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.7	1.3
10°-20°	1330.5	4.1
20°-30°	2368.7	7.3
30°-40°	3644.5	11.3
40°-50°	5166.3	16.0
50°-60°	7478.1	23.1
60°-70°	7739.0	24.0
70°-80°	3624.2	11.2
80°-90°	536.5	1.7
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°	32309.5	100.0
0°-180°	32309.5	100.0

Coefficient of Utilization



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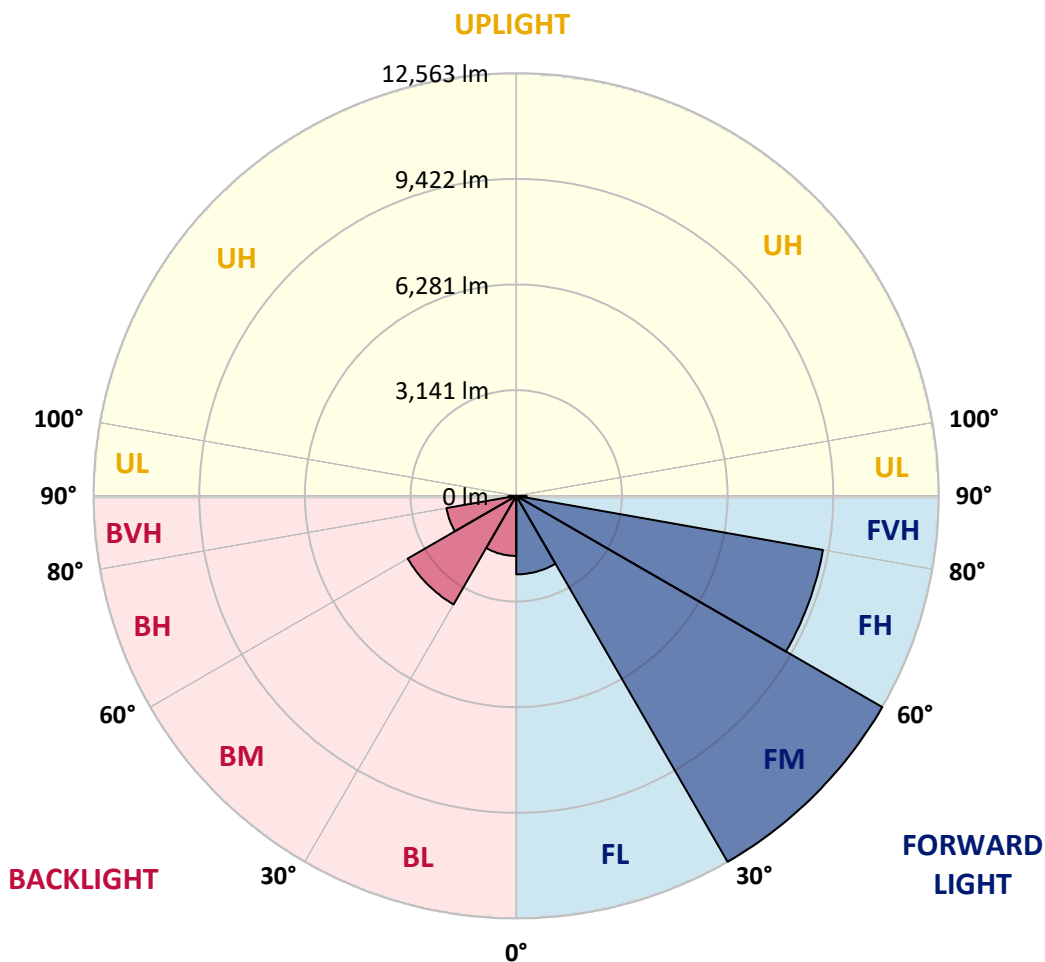
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2333.3	7.2			
FM (30°-60°)	12562.8	38.9			
FH (60°-80°)	9257.6	28.7			G4/12000
FVH (80°-90°)	307.2	1.0			G3/500
BL (0°-30°)	1787.6	5.5	B3/2500		
BM (30°-60°)	3726.1	11.5	B3/5000		
BH (60°-80°)	2105.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	229.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9
2.5°	4383.6	4381.8	4387.2	4381.8	4385.4	4372.8	4367.4	4371.0	4365.5	4356.5	4340.4
5°	4437.6	4435.9	4437.6	4430.4	4434.0	4426.9	4414.2	4417.8	4408.8	4389.0	4365.5
7.5°	4529.5	4522.2	4522.2	4520.5	4513.2	4502.5	4493.5	4489.8	4480.8	4455.6	4419.6
10°	4648.4	4648.4	4650.1	4635.8	4644.8	4624.9	4615.9	4614.1	4583.5	4551.1	4500.7
12.5°	4805.1	4814.1	4808.6	4801.4	4797.8	4790.6	4760.0	4767.2	4733.0	4677.1	4615.9
15°	4999.5	5014.0	5005.0	5001.3	4992.3	4965.3	4952.7	4947.3	4902.3	4821.2	4740.2
17.5°	5257.1	5239.1	5231.9	5222.9	5185.0	5165.3	5143.6	5140.0	5100.4	5005.0	4878.9
20°	5482.2	5507.4	5493.0	5484.0	5446.1	5408.4	5392.2	5386.8	5352.5	5248.1	5046.3
22.5°	5750.5	5756.0	5761.4	5739.7	5721.7	5692.9	5664.1	5655.1	5642.4	5534.5	5287.7
25°	6036.9	6058.5	6040.5	6018.9	5997.3	5995.5	6022.5	6018.9	6013.5	5909.0	5608.3
27.5°	6503.4	6523.1	6528.6	6505.1	6422.3	6429.5	6490.8	6510.5	6593.4	6420.5	6020.7
30°	6766.3	6786.1	6831.1	6919.4	7050.9	7166.1	7313.8	7358.8	7438.1	7112.1	6510.5
32.5°	6928.4	6935.6	7016.6	7180.5	7575.0	8005.4	8407.0	8423.2	8473.7	8016.2	6959.0
35°	7184.2	7189.5	7254.4	7434.4	7897.3	8614.1	9235.4	9255.3	9213.8	8297.1	7167.9
37.5°	7499.3	7513.7	7555.1	7704.6	8257.5	9123.8	9579.4	9565.0	9197.6	8520.4	7537.1
40°	7958.6	7958.6	7909.9	8111.6	8637.5	9415.5	9700.1	9674.9	9577.6	9167.0	8099.0
42.5°	8363.7	8356.6	8471.8	8608.7	9113.0	9865.8	10206.2	10247.6	10407.9	9979.2	8738.3
45°	8891.5	8923.9	8988.7	9237.2	9921.6	10634.8	11074.2	11113.9	11340.8	10935.6	9485.8
47.5°	9424.6	9435.3	9638.9	9970.2	10923.0	11677.5	12037.7	12102.6	12309.7	12054.0	10290.8
50°	9802.8	9905.4	10231.4	10753.7	11954.9	12949.0	13230.0	13307.5	13673.1	13271.4	11229.1
52.5°	10202.6	10303.4	10701.5	11497.5	13140.0	14249.4	14595.1	14647.4	15027.4	14503.3	12189.0
55°	10544.7	10638.4	11090.4	12156.7	14083.7	15576.7	16203.5	16142.2	16324.1	15452.4	12929.3
57.5°	10600.6	10676.2	11245.3	12578.1	14793.3	16715.0	17613.6	17649.6	17438.9	16162.0	13539.8
60°	10168.4	10323.2	10977.0	12533.0	15112.0	17507.3	18665.4	18690.6	18092.7	16525.8	13782.9
62.5°	9403.0	9386.7	10177.4	11809.1	14665.4	17687.4	19284.9	19257.9	18348.4	16351.1	13547.0
64°	8345.7	8540.3	9278.7	10919.4	13945.0	17410.1	19349.7	19335.3	18226.0	15987.3	13145.3
65°	7701.0	7690.2	8419.6	10191.7	13228.3	16992.2	19234.5	19214.7	17970.2	15661.4	12833.8
67.5°	5559.6	5584.8	6305.2	7864.9	10753.7	15358.8	18483.5	18409.7	16961.6	14580.8	11648.8
70°	3367.9	3382.2	3947.7	5217.5	7719.0	12415.9	16660.9	16664.5	15418.2	12967.0	9914.4
72.5°	1774.0	1811.8	2038.8	2962.6	4688.0	8711.3	13516.4	13837.0	13237.3	11067.1	7832.5
75°	986.9	992.4	1152.6	1460.6	2391.7	4875.3	10159.4	10251.2	10480.0	8907.6	5792.0
77.5°	752.8	763.6	814.0	943.7	1302.1	2260.3	6148.6	6609.6	7385.8	6280.0	3304.8
80°	610.6	621.3	664.6	742.0	866.3	1071.6	2856.4	3104.9	3953.1	2787.9	1289.5
82.5°	475.5	468.3	524.1	574.5	630.3	633.9	1172.4	1296.7	1610.1	1199.4	558.3
85°	353.0	353.0	398.0	387.2	407.0	371.0	516.9	570.9	644.7	509.6	259.4
87.5°	140.4	154.9	261.1	234.1	181.9	145.9	190.9	201.7	223.3	199.9	108.1
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°	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9	4334.9
2.5°	4342.2	4347.5	4334.9	4325.9	4322.3	4316.9	4311.6	4313.3	4320.6	4327.8	4325.9
5°	4363.8	4365.5	4343.9	4333.2	4325.9	4318.8	4318.8	4324.2	4338.6	4349.4	4349.4
7.5°	4417.8	4417.8	4387.2	4367.4	4356.5	4343.9	4340.4	4342.2	4353.0	4367.4	4369.2
10°	4502.5	4495.2	4455.6	4425.0	4405.2	4374.5	4347.5	4333.2	4338.6	4347.5	4347.5
12.5°	4605.1	4585.3	4534.8	4493.5	4444.9	4387.2	4331.4	4302.6	4300.7	4309.8	4306.2
15°	4715.0	4693.4	4623.1	4547.5	4462.9	4378.2	4311.6	4270.1	4237.7	4228.7	4248.5
17.5°	4842.8	4797.8	4700.6	4596.1	4470.0	4360.2	4255.7	4171.1	4113.4	4097.3	4102.7
20°	4997.7	4938.3	4806.8	4642.9	4464.6	4295.3	4133.3	4019.8	3926.1	3897.4	3900.9
22.5°	5212.0	5109.4	4916.7	4666.4	4419.6	4172.9	3947.7	3800.1	3686.6	3641.6	3668.6
25°	5455.1	5343.5	5021.1	4660.9	4302.6	3976.6	3728.1	3535.3	3432.7	3366.0	3380.5
27.5°	5790.1	5592.1	5132.8	4612.3	4135.0	3737.1	3448.9	3266.9	3173.3	3139.1	3155.3
30°	6218.8	5914.4	5253.5	4480.8	3870.3	3434.5	3168.0	3049.0	2993.2	2950.0	2964.4
32.5°	6528.6	6141.3	5280.5	4259.3	3583.9	3159.0	2977.1	2888.8	2827.5	2786.1	2795.1
35°	6750.1	6334.1	5267.9	3987.3	3285.0	2932.0	2825.8	2753.7	2654.6	2564.6	2548.4
37.5°	7047.2	6575.4	5176.0	3690.2	2989.7	2778.9	2703.3	2570.0	2427.7	2307.0	2301.6
40°	7502.9	6858.1	4979.7	3340.8	2737.5	2665.5	2573.6	2400.7	2247.7	2150.4	2143.2
42.5°	7972.9	7119.3	4713.1	2973.4	2530.4	2546.5	2434.9	2263.8	2170.2	2107.1	2100.0
45°	8547.5	7402.1	4425.0	2654.6	2377.3	2434.9	2314.3	2215.2	2159.4	2118.0	2107.1
47.5°	9168.8	7692.0	4100.8	2368.3	2247.7	2332.3	2263.8	2218.8	2188.2	2159.4	2146.7
50°	9838.8	8016.2	3796.4	2137.7	2130.6	2226.0	2258.4	2242.2	2224.2	2215.2	2204.4
52.5°	10573.6	8347.5	3540.7	1975.7	2027.9	2150.4	2260.3	2272.8	2272.8	2267.4	2260.3
55°	11070.7	8578.1	3281.4	1844.2	1923.5	2089.1	2256.7	2305.3	2323.3	2316.0	2308.9
57.5°	11438.0	8704.2	2955.4	1730.8	1835.2	2029.7	2236.8	2308.9	2326.9	2335.9	2332.3
60°	11513.7	8587.1	2528.6	1611.9	1739.8	1943.3	2164.8	2254.8	2278.3	2334.1	2339.5
62.5°	11173.3	8226.9	2103.5	1494.8	1622.7	1811.8	2067.5	2193.6	2240.4	2326.9	2335.9
64°	10755.5	7823.5	1867.6	1421.0	1547.0	1737.9	2018.9	2177.3	2238.7	2353.9	2361.1
65°	10449.3	7529.9	1719.9	1374.1	1498.4	1689.3	1991.9	2182.8	2254.8	2395.3	2406.1
67.5°	9321.9	6519.5	1422.8	1264.3	1383.2	1606.5	1997.3	2227.8	2251.2	2411.5	2409.7
70°	7713.6	5190.4	1192.3	1163.4	1271.5	1539.9	1975.7	2155.7	2157.6	2263.8	2238.7
72.5°	5775.7	3836.1	1033.8	1059.0	1147.2	1381.3	1865.8	2058.5	2027.9	2042.3	2017.1
75°	3967.6	2537.5	889.7	947.3	1017.5	1221.0	1710.9	1869.5	1820.8	1802.8	1784.8
77.5°	2118.0	1403.0	740.2	837.5	884.3	1055.4	1493.0	1646.1	1595.6	1525.4	1502.0
80°	857.2	660.9	596.1	693.4	720.4	850.1	1242.7	1338.1	1300.3	1177.8	1138.2
82.5°	430.4	396.2	468.3	545.7	547.5	606.9	923.9	1014.0	929.3	779.9	745.6
85°	225.1	232.4	322.4	383.6	338.6	327.7	554.7	614.1	563.7	489.9	441.3
87.5°	81.1	93.7	169.3	167.5	118.8	63.1	122.4	59.5	32.4	19.8	25.2
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)