

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: P648183

Luminaire Tested: **GALN-SA9A-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648183
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-SA9A-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32190.7 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

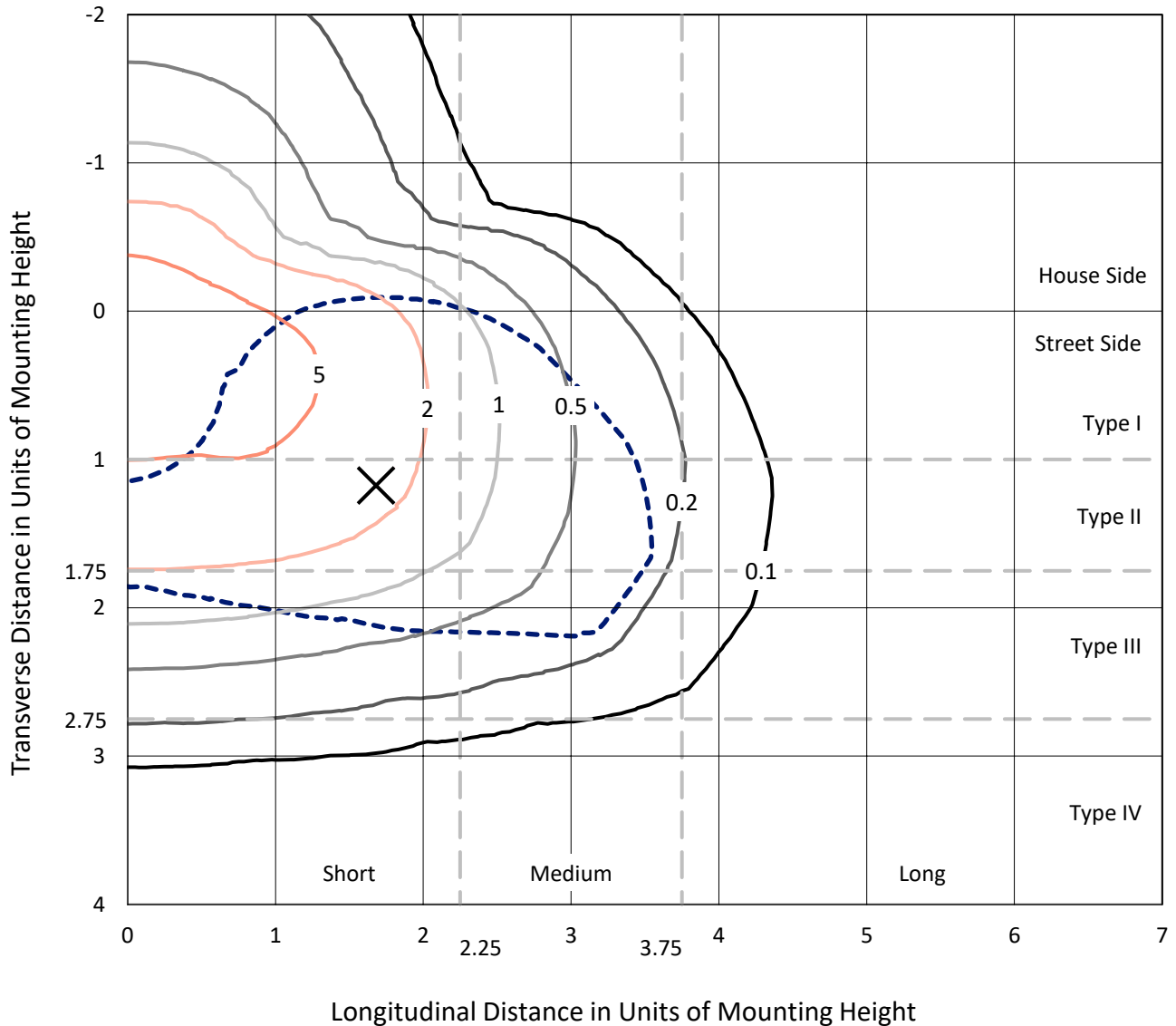
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

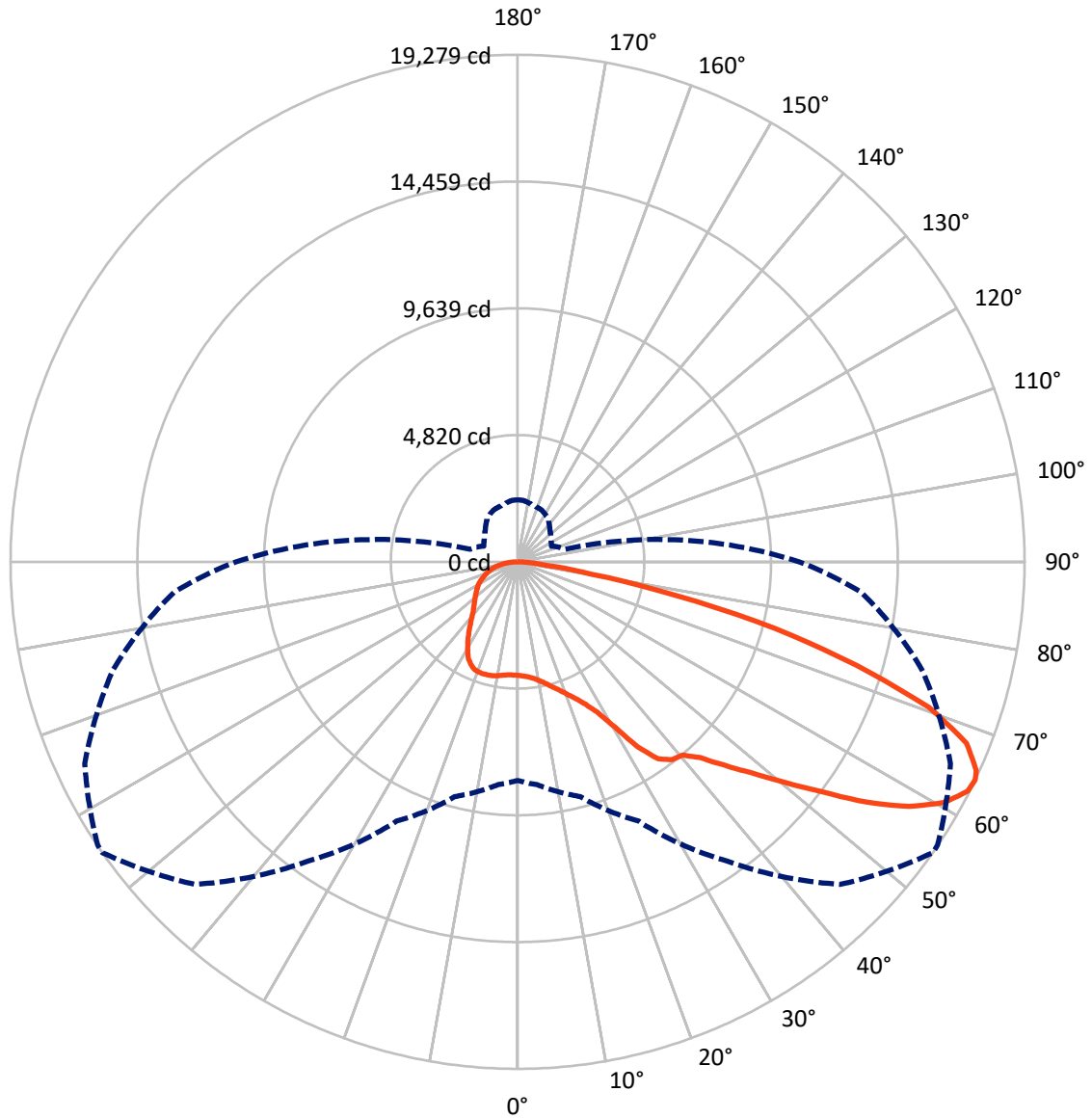
✕ Max cd
 - - - 1/2 Max cd



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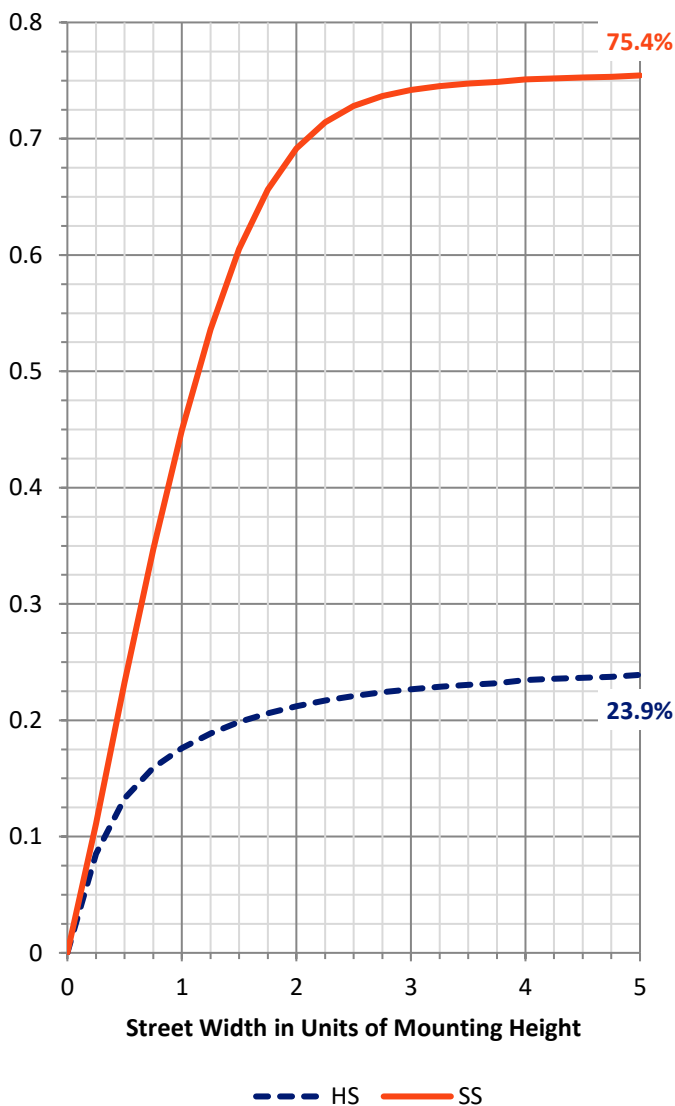
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7819.7	0.0	7819.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	24370.9	0.0	24370.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	32190.7	0.0	32190.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.1	1.3
10°-20°	1325.6	4.1
20°-30°	2360.0	7.3
30°-40°	3631.1	11.3
40°-50°	5147.3	16.0
50°-60°	7450.6	23.1
60°-70°	7710.6	24.0
70°-80°	3610.9	11.2
80°-90°	534.5	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°	32190.7	100.0
0°-180°	32190.7	100.0

Coefficient of Utilization



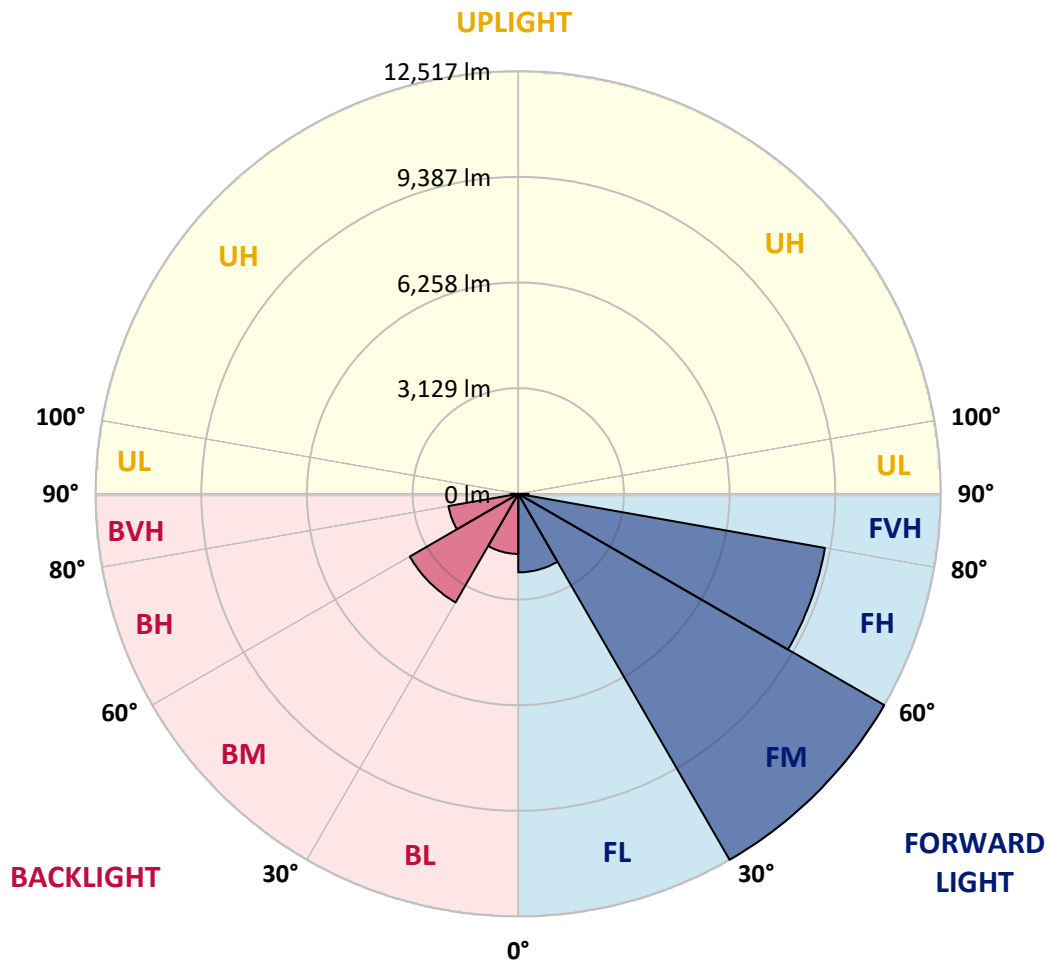
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2324.7	7.2			
FM (30°-60°)	12516.6	38.9			
FH (60°-80°)	9223.6	28.7			G4/12000
FVH (80°-90°)	306.1	1.0			G3/500
BL (0°-30°)	1781.0	5.5	B3/2500		
BM (30°-60°)	3712.4	11.5	B3/5000		
BH (60°-80°)	2097.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	228.5	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°	4319.0	4319.0	4319.0	4319.0	4319.0	4319.0	4319.0	4319.0	4319.0	4319.0	4319.0
2.5°	4367.5	4365.7	4371.0	4365.7	4369.3	4356.7	4351.3	4354.9	4349.5	4340.6	4324.4
5°	4421.3	4419.5	4421.3	4414.1	4417.7	4410.6	4398.0	4401.6	4392.6	4372.8	4349.5
7.5°	4512.8	4505.6	4505.6	4503.8	4496.7	4485.9	4477.0	4473.4	4464.4	4439.2	4403.4
10°	4631.2	4631.2	4633.0	4618.7	4627.7	4607.9	4599.0	4597.1	4566.6	4534.4	4484.1
12.5°	4787.3	4796.3	4790.9	4783.7	4780.1	4773.0	4742.5	4749.7	4715.5	4659.9	4599.0
15°	4981.1	4995.5	4986.5	4982.9	4973.9	4947.1	4934.5	4929.1	4884.3	4803.5	4722.7
17.5°	5237.7	5219.8	5212.6	5203.7	5165.9	5146.2	5124.7	5121.1	5081.6	4986.5	4860.9
20°	5462.1	5487.2	5472.8	5463.9	5426.1	5388.4	5372.3	5366.9	5332.9	5228.8	5027.8
22.5°	5729.4	5734.8	5740.2	5718.6	5700.7	5672.0	5643.2	5634.3	5621.7	5514.0	5268.3
25°	6014.7	6036.2	6018.3	5996.8	5975.2	5973.4	6000.4	5996.8	5991.4	5887.3	5587.6
27.5°	6479.4	6499.1	6504.5	6481.2	6398.7	6405.9	6466.9	6486.6	6569.1	6396.9	5998.6
30°	6741.4	6761.1	6806.0	6893.9	7024.9	7139.8	7286.9	7331.8	7410.7	7085.9	6486.6
32.5°	6902.9	6910.1	6990.8	7154.1	7547.1	7976.0	8376.1	8392.2	8442.5	7986.7	6933.4
35°	7157.7	7163.0	7227.6	7407.1	7868.3	8582.4	9201.5	9221.2	9180.0	8266.6	7141.5
37.5°	7471.7	7486.0	7527.4	7676.3	8227.1	9090.2	9544.2	9529.8	9163.8	8489.1	7509.4
40°	7929.3	7929.3	7880.8	8081.8	8605.7	9380.9	9664.4	9639.3	9542.4	9133.3	8069.2
42.5°	8333.0	8325.8	8440.7	8577.1	9079.4	9829.5	10168.7	10209.9	10369.6	9942.5	8706.3
45°	8858.8	8891.0	8955.6	9203.2	9885.1	10595.7	11033.5	11073.0	11299.1	10895.4	9450.9
47.5°	9389.9	9400.6	9603.4	9933.5	10882.8	11634.6	11993.5	12058.1	12264.4	12009.7	10253.0
50°	9766.7	9868.9	10193.7	10714.1	11910.9	12901.4	13181.3	13258.5	13622.8	13222.6	11187.8
52.5°	10165.1	10265.5	10662.1	11455.2	13091.6	14197.0	14541.5	14593.5	14972.1	14450.0	12144.3
55°	10506.0	10599.2	11049.6	12111.9	14031.9	15519.4	16143.8	16082.8	16264.1	15395.6	12881.7
57.5°	10561.6	10637.0	11203.9	12531.8	14738.9	16653.5	17548.8	17584.7	17374.8	16102.6	13490.0
60°	10130.9	10285.3	10936.6	12487.0	15056.5	17443.0	18596.7	18621.9	18026.1	16465.0	13732.3
62.5°	9368.4	9352.2	10139.9	11765.6	14611.5	17622.4	19214.0	19187.1	18280.9	16290.9	13497.2
64°	8315.1	8508.9	9244.6	10879.2	13893.7	17346.0	19278.6	19264.2	18158.9	15928.5	13097.0
65°	7672.7	7661.9	8388.6	10154.3	13179.5	16929.8	19163.8	19144.0	17904.1	15603.7	12786.6
67.5°	5539.2	5564.3	6282.0	7836.0	10714.1	15302.2	18415.5	18341.9	16899.3	14527.2	11605.9
70°	3355.5	3369.8	3933.2	5198.3	7690.6	12370.3	16599.6	16603.2	15361.5	12919.3	9877.9
72.5°	1767.5	1805.1	2031.2	2951.8	4670.8	8679.3	13466.7	13786.0	13188.5	11026.4	7803.7
75°	983.3	988.7	1148.4	1455.2	2382.9	4857.3	10122.0	10213.5	10441.4	8874.9	5770.6
77.5°	750.0	760.8	811.0	940.2	1297.4	2251.9	6126.0	6585.3	7358.6	6257.0	3292.7
80°	608.3	619.0	662.1	739.3	863.1	1067.6	2845.8	3093.5	3938.6	2777.7	1284.7
82.5°	473.7	466.5	522.2	572.4	628.0	631.6	1168.2	1292.0	1604.1	1195.0	556.2
85°	351.7	351.7	396.6	385.8	405.5	369.7	515.0	568.8	642.4	507.8	258.4
87.5°	139.9	154.3	260.2	233.3	181.3	145.3	190.2	201.0	222.5	199.2	107.7
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°	4319.0	4319.0	4319.0	4319.0	4319.0	4319.0	4319.0	4319.0	4319.0	4319.0	4319.0
2.5°	4326.2	4331.6	4319.0	4310.0	4306.4	4301.1	4295.7	4297.5	4304.7	4311.8	4310.0
5°	4347.8	4349.5	4328.0	4317.2	4310.0	4302.9	4302.9	4308.2	4322.6	4333.4	4333.4
7.5°	4401.6	4401.6	4371.0	4351.3	4340.6	4328.0	4324.4	4326.2	4337.0	4351.3	4353.1
10°	4485.9	4478.7	4439.2	4408.8	4389.0	4358.5	4331.6	4317.2	4322.6	4331.6	4331.6
12.5°	4588.1	4568.4	4518.2	4477.0	4428.5	4371.0	4315.4	4286.7	4284.9	4293.9	4290.3
15°	4697.6	4676.1	4606.2	4530.8	4446.4	4362.1	4295.7	4254.4	4222.1	4213.2	4232.9
17.5°	4825.0	4780.1	4683.3	4579.2	4453.6	4344.2	4240.1	4155.7	4098.3	4082.2	4087.6
20°	4979.3	4920.1	4789.1	4625.9	4448.2	4279.6	4118.0	4005.0	3911.7	3883.0	3886.6
22.5°	5192.9	5090.6	4898.6	4649.2	4403.4	4157.5	3933.2	3786.1	3673.1	3628.2	3655.1
25°	5435.1	5323.9	5002.7	4643.8	4286.7	3962.0	3714.3	3522.3	3420.1	3353.7	3368.0
27.5°	5768.8	5571.5	5113.9	4595.3	4119.8	3723.3	3436.2	3254.9	3161.7	3127.5	3143.7
30°	6196.0	5892.7	5234.1	4464.4	3856.0	3421.9	3156.3	3037.9	2982.2	2939.1	2953.5
32.5°	6504.5	6118.8	5261.1	4243.6	3570.8	3147.3	2966.1	2878.2	2817.2	2775.9	2784.8
35°	6725.3	6310.7	5248.5	3972.7	3272.9	2921.2	2815.4	2743.6	2644.9	2555.2	2539.0
37.5°	7021.3	6551.2	5157.0	3676.7	2978.6	2768.7	2693.4	2560.6	2418.8	2298.6	2293.2
40°	7475.3	6832.9	4961.4	3328.5	2727.4	2655.6	2564.2	2391.9	2239.4	2142.4	2135.3
42.5°	7943.6	7093.1	4695.8	2962.5	2521.1	2537.2	2426.0	2255.5	2162.2	2099.4	2092.3
45°	8516.0	7374.8	4408.8	2644.9	2368.6	2426.0	2305.8	2207.0	2151.4	2110.2	2099.4
47.5°	9135.1	7663.7	4085.8	2359.6	2239.4	2323.7	2255.5	2210.6	2180.1	2151.4	2138.8
50°	9802.6	7986.7	3782.5	2129.9	2122.7	2217.8	2250.1	2234.0	2216.0	2207.0	2196.3
52.5°	10534.6	8316.9	3527.7	1968.4	2020.5	2142.4	2251.9	2264.5	2264.5	2259.1	2251.9
55°	11029.9	8546.5	3269.3	1837.4	1916.4	2081.4	2248.3	2296.8	2314.7	2307.6	2300.4
57.5°	11395.9	8672.1	2944.5	1724.4	1828.5	2022.3	2228.6	2300.4	2318.3	2327.3	2323.7
60°	11471.3	8555.5	2519.3	1605.9	1733.3	1936.1	2156.9	2246.5	2269.8	2325.5	2330.8
62.5°	11132.2	8196.6	2095.8	1489.3	1616.7	1805.1	2059.9	2185.5	2232.2	2318.3	2327.3
64°	10715.9	7794.7	1860.7	1415.7	1541.3	1731.5	2011.4	2169.4	2230.4	2345.2	2352.4
65°	10410.8	7502.2	1713.6	1369.1	1492.9	1683.1	1984.6	2174.8	2246.5	2386.5	2397.2
67.5°	9287.6	6495.6	1417.5	1259.6	1378.1	1600.5	1989.9	2219.6	2243.0	2402.6	2400.8
70°	7685.2	5171.3	1187.9	1159.2	1266.8	1534.2	1968.4	2147.8	2149.6	2255.5	2230.4
72.5°	5754.5	3822.0	1030.0	1055.1	1143.0	1376.3	1858.9	2051.0	2020.5	2034.8	2009.6
75°	3953.0	2528.2	886.4	943.8	1013.8	1216.5	1704.7	1862.5	1814.1	1796.1	1778.2
77.5°	2110.2	1397.8	737.5	834.4	881.0	1051.5	1487.5	1640.1	1589.8	1519.8	1496.5
80°	854.1	658.5	593.9	690.8	717.8	847.0	1238.1	1333.2	1295.6	1173.5	1134.0
82.5°	428.8	394.8	466.5	543.7	545.5	604.7	920.5	1010.2	925.9	777.0	742.8
85°	224.3	231.5	321.2	382.2	337.3	326.6	552.6	611.9	561.6	488.0	439.7
87.5°	80.7	93.3	168.7	166.9	118.4	62.8	122.0	59.2	32.3	19.7	25.1
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)