

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: P522935

Luminaire Tested: **GALN-SA9D-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51592 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

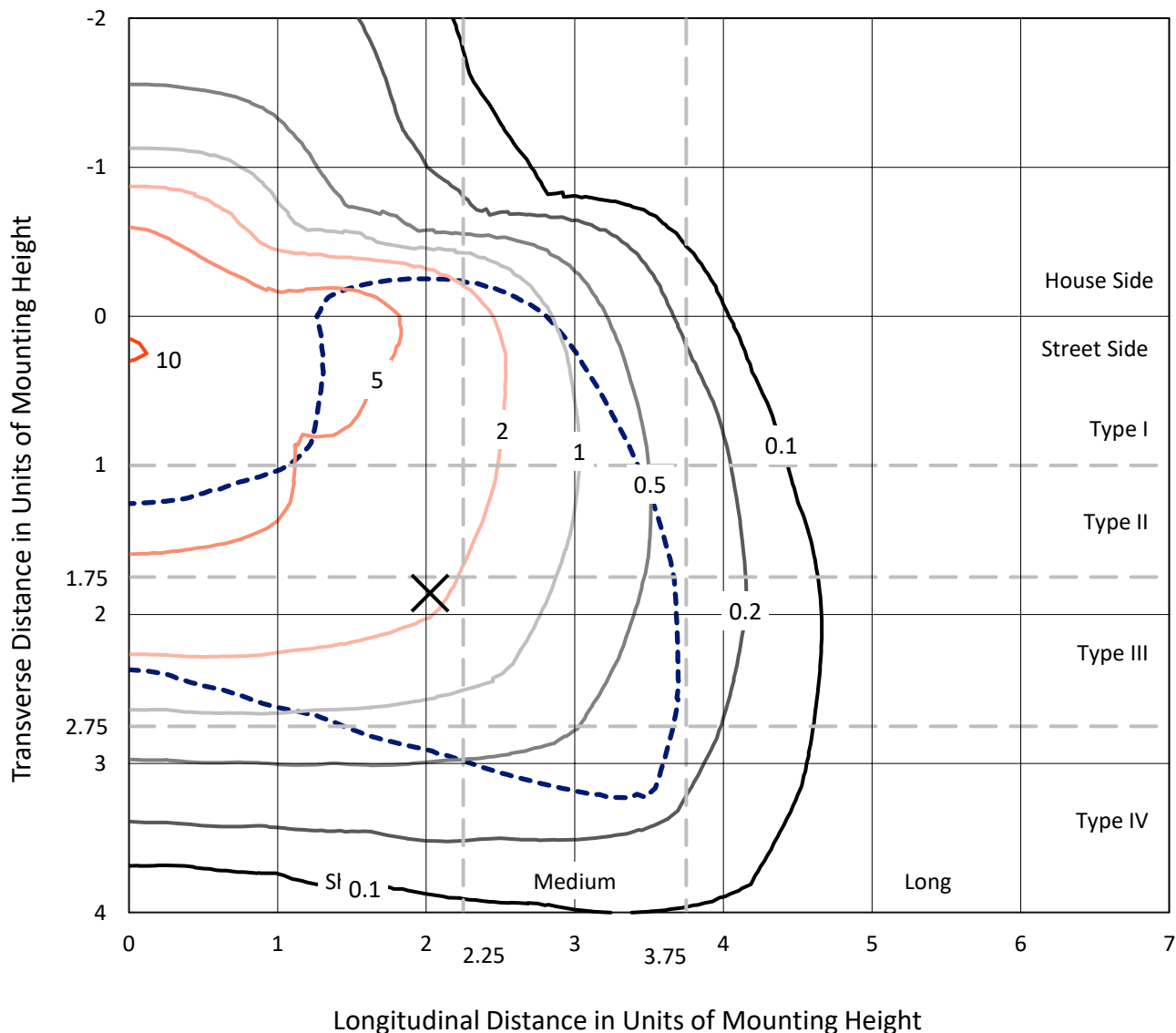
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

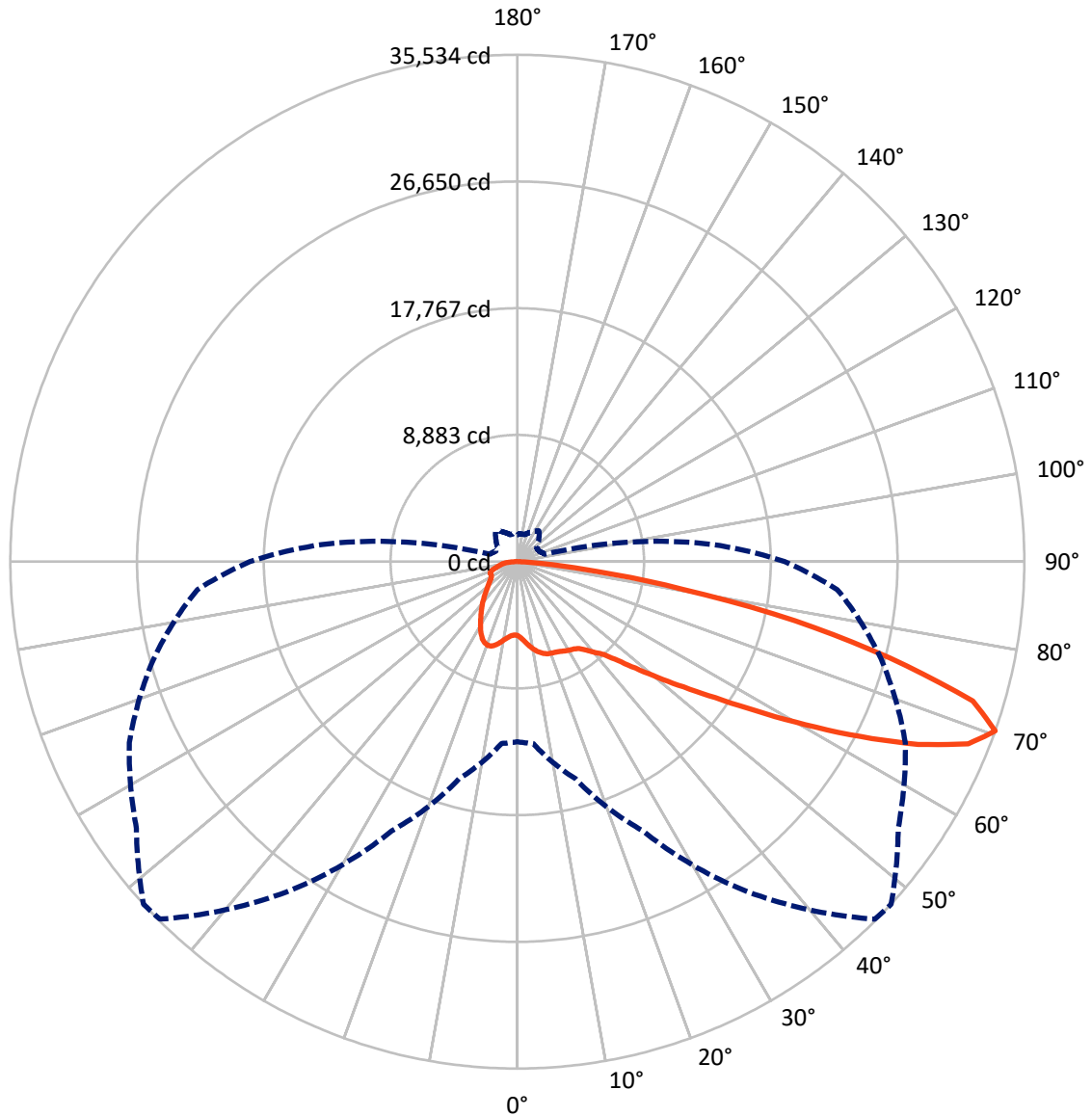
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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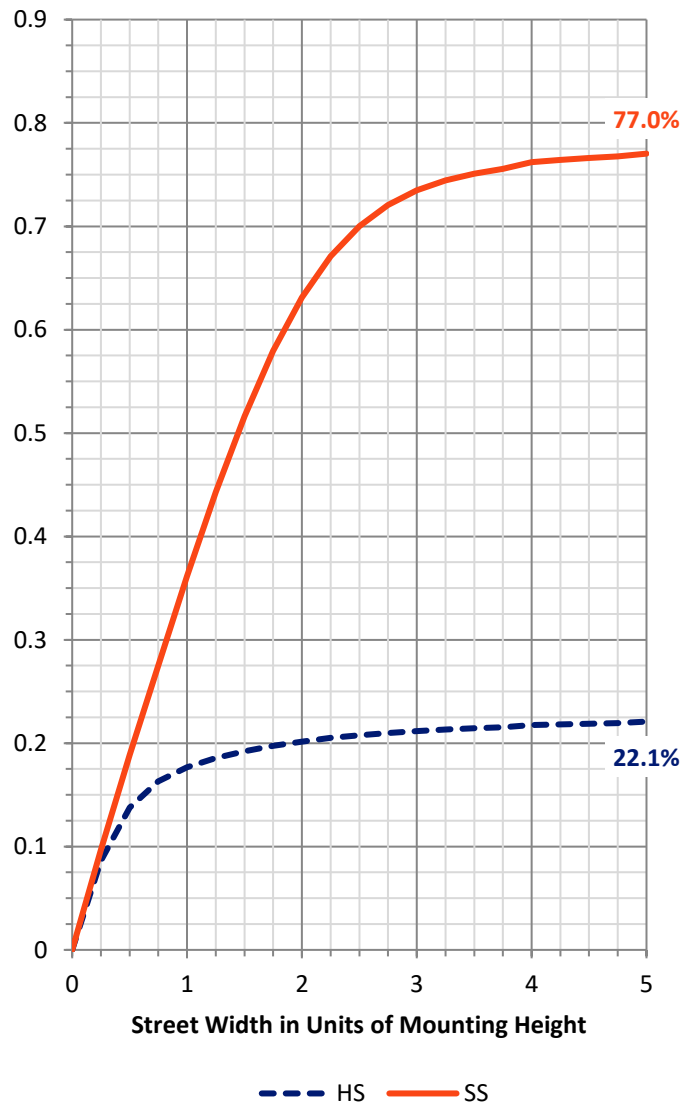
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11681.4	0.0	11681.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	39910.6	0.0	39910.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	51592.0	0.0	51592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.9	1.0
10°-20°	1784.8	3.5
20°-30°	2968.0	5.8
30°-40°	4206.8	8.2
40°-50°	6210.1	12.0
50°-60°	10756.1	20.8
60°-70°	15193.3	29.4
70°-80°	8734.0	16.9
80°-90°	1205.1	2.3
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°	51592.0	100.0
0°-180°	51592.0	100.0

Coefficient of Utilization



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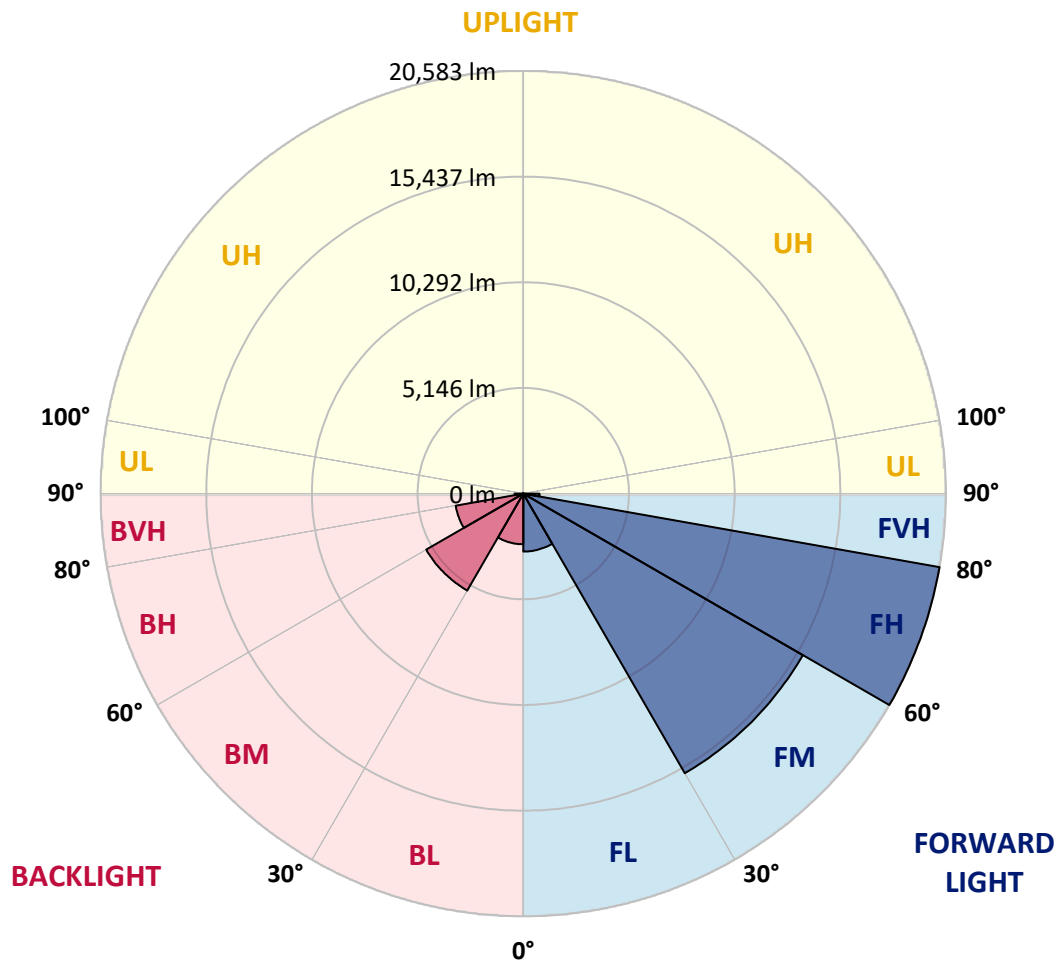
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2821.2	5.5			
FM	(30°-60°)	15719.1	30.5			
FH	(60°-80°)	20583.1	39.9			G5
FVH	(80°-90°)	787.2	1.5			G5
BL	(0°-30°)	2465.4	4.8	B3/2500		
BM	(30°-60°)	5453.9	10.6	B4/8500		
BH	(60°-80°)	3344.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	417.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	5179.2	5179.2	5179.2	5179.2	5179.2	5179.2	5179.2	5179.2	5179.2	5179.2	5179.2
2.5°	5513.3	5493.9	5491.2	5449.8	5427.7	5386.3	5369.7	5331.1	5284.1	5237.2	5193.0
5°	5946.7	5946.7	5927.4	5869.4	5778.3	5684.4	5643.0	5568.5	5436.0	5328.3	5237.2
7.5°	6391.2	6396.7	6358.1	6272.5	6142.7	5990.9	5952.2	5841.8	5654.1	5496.7	5361.4
10°	6774.9	6774.9	6722.5	6606.5	6443.7	6278.0	6239.4	6115.1	5905.3	5709.3	5532.6
12.5°	7067.6	7067.6	6998.6	6846.7	6670.0	6521.0	6476.8	6358.1	6162.1	5944.0	5720.3
15°	7258.1	7244.3	7167.0	6995.8	6824.6	6694.9	6664.5	6565.1	6385.7	6164.8	5913.6
17.5°	7266.4	7260.8	7186.3	7042.7	6893.7	6805.3	6786.0	6719.7	6578.9	6369.1	6104.1
20°	7106.2	7117.3	7067.6	6965.4	6893.7	6855.0	6846.7	6824.6	6725.3	6529.2	6264.2
22.5°	6935.1	6954.4	6907.5	6852.2	6846.7	6885.4	6890.9	6896.4	6832.9	6642.4	6399.5
25°	6893.7	6907.5	6860.5	6810.8	6841.2	6943.4	6965.4	6987.5	6937.8	6777.7	6559.6
27.5°	7103.5	7092.4	7001.3	6893.7	6913.0	7051.0	7081.4	7106.2	7081.4	6943.4	6758.4
30°	7697.0	7661.2	7478.9	7164.2	7064.8	7161.5	7191.8	7260.8	7260.8	7158.7	6973.7
32.5°	8690.9	8621.9	8287.8	7669.4	7324.3	7266.4	7296.7	7409.9	7467.9	7387.8	7186.3
35°	9897.4	9825.6	9348.0	8517.0	7799.2	7476.2	7467.9	7594.9	7749.5	7570.0	7307.8
37.5°	11109.4	11034.8	10460.6	9527.4	8492.1	7917.9	7868.2	7912.4	7978.6	7650.1	7476.2
40°	12321.3	12233.0	11730.5	10656.6	9339.7	8503.2	8373.4	8174.7	8147.1	7912.4	7802.0
42.5°	13522.3	13442.2	13188.2	11923.8	10355.7	9074.7	8875.9	8533.6	8638.5	8497.7	8401.0
45°	14734.3	14739.8	14469.2	13345.6	11581.5	10129.3	9861.5	9325.9	9574.4	9521.9	9577.1
47.5°	15808.2	15794.4	15697.8	14726.0	13102.6	11487.6	11142.5	10521.3	10946.5	11139.7	11562.1
50°	16849.0	16840.7	16846.3	16291.3	14869.5	13102.6	12721.7	12070.1	13028.1	13699.0	14455.4
52.5°	18339.8	18386.8	18052.7	17906.4	17017.4	15010.3	14590.7	13917.1	15488.0	16545.3	18022.3
55°	19836.2	19797.5	19535.3	19687.1	19264.7	17268.7	16829.7	16294.1	18226.6	19383.4	21603.1
57.5°	20716.9	20730.7	20998.5	21741.1	22039.3	20084.6	19687.1	19273.0	21304.9	22124.9	24789.0
60°	21509.2	21572.7	22343.0	23745.4	24554.3	23543.9	23190.5	22787.4	24129.2	24455.0	27555.3
62.5°	21757.7	21953.7	23298.2	25396.4	27005.9	27447.6	27008.7	26119.7	26818.2	26691.2	29429.9
65°	20518.1	20785.9	23196.0	26014.8	29195.2	31152.6	30873.8	29222.8	29109.6	28344.9	29736.3
67.5°	17254.9	17522.6	20617.5	24717.2	30100.7	34360.6	34081.8	31486.7	30501.1	28499.5	27417.3
70°	12625.0	12793.4	15753.0	20810.7	28281.4	35437.3	35533.9	32591.0	30004.1	26398.5	22511.4
72.5°	7274.6	7647.3	9720.7	14640.4	23104.9	32715.2	33386.1	30294.0	26862.4	22022.7	15739.2
75°	3128.0	3136.2	4494.5	8075.3	15648.1	26296.4	26945.2	25112.0	21095.1	15228.4	8403.8
77.5°	1488.1	1515.7	1976.7	3605.6	8613.6	18168.7	19919.0	17740.7	13491.9	7316.1	3174.9
80°	966.3	985.6	1209.2	1789.0	4224.0	10535.1	11755.4	10234.2	5952.2	2614.5	1369.3
82.5°	585.3	590.8	808.9	1093.3	2324.6	4770.6	5623.7	4442.1	2539.9	1565.4	806.1
85°	356.1	358.9	491.4	676.4	1410.8	1648.2	1692.4	1678.6	1490.8	1024.2	430.7
87.5°	171.2	176.7	254.0	320.3	554.9	510.7	483.1	560.4	704.0	552.2	185.0
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°	5179.2	5179.2	5179.2	5179.2	5179.2	5179.2	5179.2	5179.2	5179.2	5179.2	5179.2
2.5°	5173.7	5165.4	5146.1	5137.8	5132.3	5135.0	5132.3	5132.3	5135.0	5135.0	5135.0
5°	5198.5	5184.7	5154.4	5154.4	5170.9	5209.6	5245.5	5273.1	5303.5	5300.7	5300.7
7.5°	5306.2	5281.4	5245.5	5256.5	5297.9	5358.7	5422.2	5482.9	5543.6	5549.2	5546.4
10°	5463.6	5438.7	5400.1	5413.9	5480.1	5571.2	5651.3	5739.7	5805.9	5825.2	5819.7
12.5°	5643.0	5593.3	5560.2	5598.9	5703.8	5825.2	5902.5	5968.8	6015.7	6043.3	6032.3
15°	5825.2	5778.3	5739.7	5819.7	5946.7	6059.9	6098.6	6109.6	6117.9	6145.5	6140.0
17.5°	6001.9	5938.4	5924.6	6029.5	6151.0	6200.7	6178.6	6131.7	6095.8	6117.9	6115.1
20°	6159.3	6109.6	6104.1	6209.0	6255.9	6209.0	6115.1	6032.3	5968.8	5974.3	5971.6
22.5°	6308.4	6269.7	6275.2	6319.4	6244.9	6084.8	5930.1	5817.0	5747.9	5761.7	5770.0
25°	6474.0	6435.4	6449.2	6377.4	6131.7	5852.8	5629.2	5532.6	5505.0	5532.6	5551.9
27.5°	6689.4	6664.5	6656.2	6380.2	5930.1	5510.5	5256.5	5220.6	5245.5	5306.2	5336.6
30°	6921.3	6921.3	6877.1	6333.2	5654.1	5099.2	4878.3	4883.8	4969.4	5055.0	5085.3
32.5°	7144.9	7191.8	7053.8	6206.2	5297.9	4698.8	4530.4	4536.0	4610.5	4715.4	4743.0
35°	7329.9	7465.1	7205.6	5974.3	4878.3	4362.0	4235.0	4160.5	4163.3	4243.3	4265.4
37.5°	7583.9	7835.1	7294.0	5629.2	4431.0	4074.9	3931.3	3801.6	3716.0	3682.9	3682.9
40°	8025.6	8395.5	7316.1	5118.5	4008.6	3801.6	3597.3	3442.7	3277.0	3128.0	3100.4
42.5°	8773.7	9240.3	7271.9	4530.4	3627.7	3500.7	3301.9	3111.4	2882.3	2672.4	2655.9
45°	10098.9	10339.1	7153.2	3920.3	3288.1	3210.8	3017.5	2810.5	2567.5	2379.8	2366.0
47.5°	12222.0	11882.4	6995.8	3379.2	2978.9	2956.8	2807.7	2567.5	2324.6	2194.8	2181.0
50°	15322.3	14311.9	6973.7	2987.2	2730.4	2741.5	2620.0	2399.1	2186.5	2078.9	2062.3
52.5°	19054.9	17246.6	7120.0	2711.1	2512.3	2553.7	2493.0	2288.7	2101.0	2009.8	1993.3
55°	22677.0	19885.9	7208.4	2495.7	2308.0	2385.3	2393.6	2222.4	2051.3	1960.2	1949.1
57.5°	25617.2	21873.6	6816.4	2299.7	2131.3	2250.0	2310.8	2183.8	2026.4	1957.4	1946.3
60°	27663.0	22812.3	5701.0	2125.8	2001.6	2142.4	2280.4	2186.5	2087.1	2095.4	2101.0
62.5°	28314.5	22395.4	4276.4	1996.0	1913.2	2106.5	2330.1	2299.7	2197.6	2261.1	2272.1
65°	27235.1	20672.7	3100.4	1893.9	1835.9	2131.3	2479.2	2382.5	2158.9	2205.9	2205.9
67.5°	23621.2	17809.8	2412.9	1800.0	1747.6	2178.3	2628.3	2374.3	2067.8	2123.0	2073.3
70°	18737.4	13776.3	2009.8	1695.1	1653.7	2109.2	2642.1	2288.7	1960.2	1971.2	1877.3
72.5°	12434.5	9058.1	1728.2	1595.7	1510.1	1896.7	2528.9	2178.3	1855.2	1791.7	1697.9
75°	6093.0	4516.6	1507.4	1471.5	1322.4	1650.9	2374.3	2073.3	1742.0	1642.7	1590.2
77.5°	2360.5	1921.5	1286.5	1314.1	1151.2	1454.9	2170.0	1924.3	1593.0	1457.7	1416.3
80°	1145.7	1090.5	1054.6	1096.0	946.9	1239.6	1982.2	1794.5	1454.9	1305.8	1245.1
82.5°	712.3	673.6	808.9	853.1	728.8	1131.9	1880.1	1684.1	1281.0	1082.2	1032.5
85°	361.7	386.5	541.1	582.5	521.8	900.0	1548.8	1264.4	924.9	767.5	773.0
87.5°	138.0	185.0	284.4	306.4	278.8	474.9	853.1	737.1	593.6	403.1	372.7
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)