

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: P647331

Luminaire Tested: **GALN-SA3D-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17922.1 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184
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

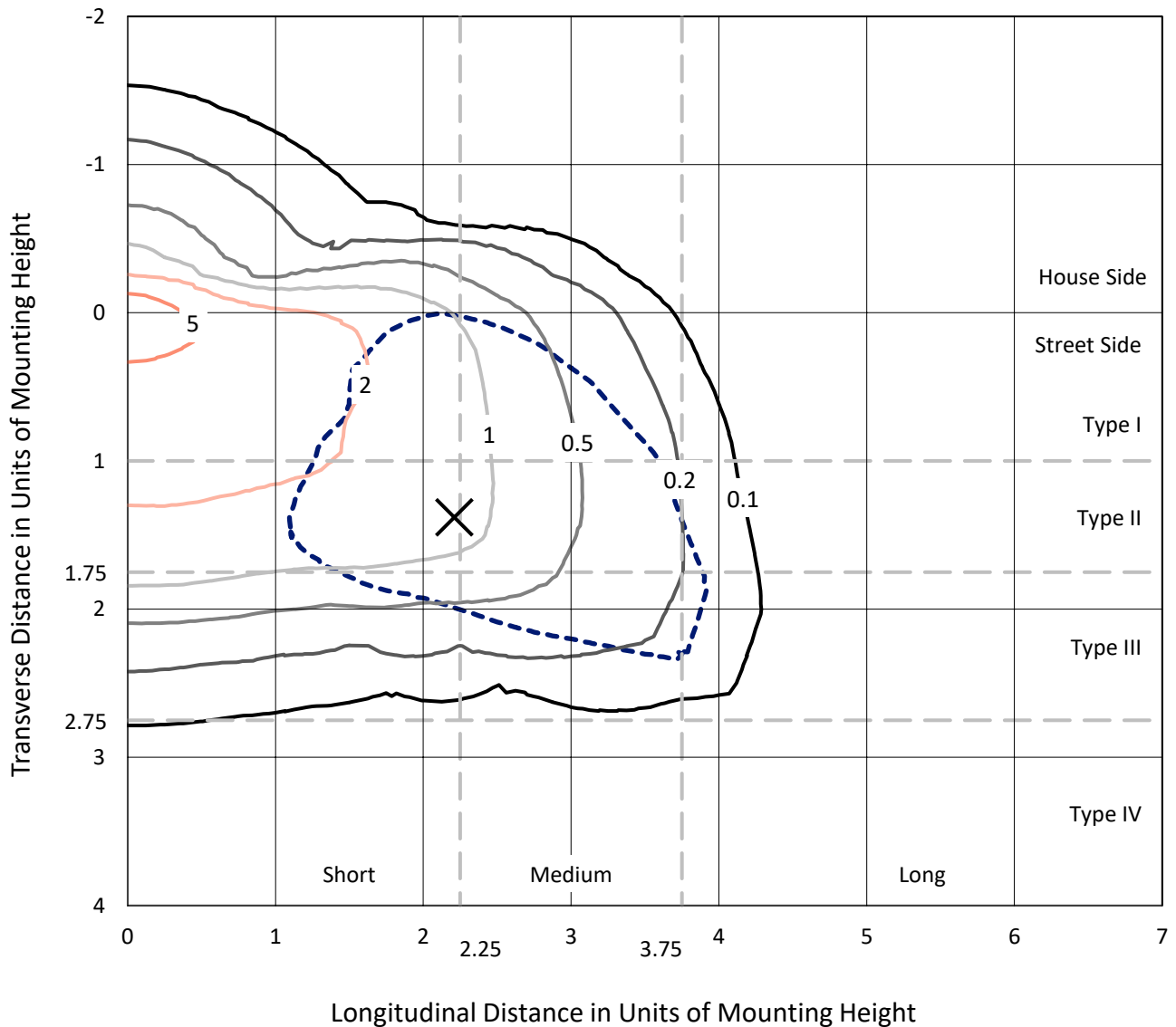




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Iso-Footcandle Lines of Horizontal Illumination

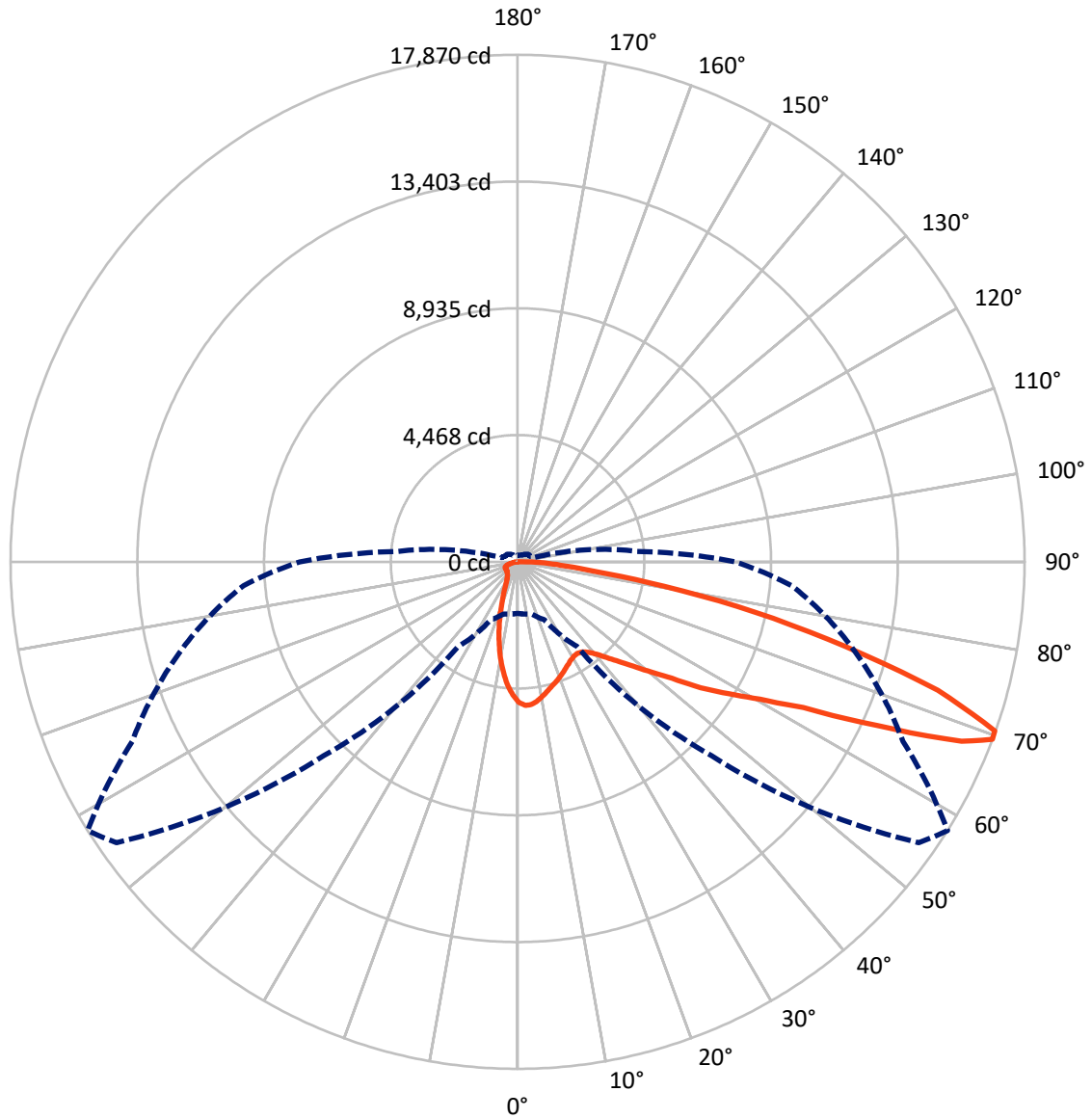
× Max cd
 - - - 1/2 Max cd



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 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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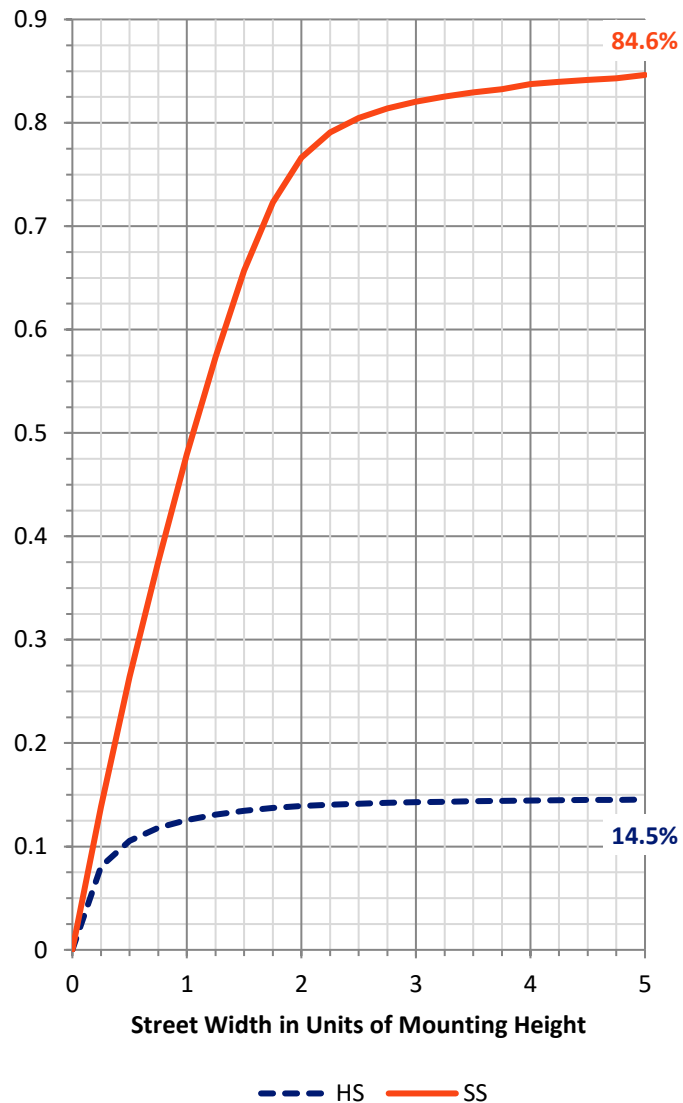
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2626.5	0.0	2626.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	15295.6	0.0	15295.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	17922.1	0.0	17922.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.6	2.3
10°-20°	923.6	5.2
20°-30°	1193.3	6.7
30°-40°	1549.8	8.6
40°-50°	2253.2	12.6
50°-60°	3595.4	20.1
60°-70°	4802.9	26.8
70°-80°	2768.7	15.4
80°-90°	414.7	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°	17922.1	100.0
0°-180°	17922.1	100.0

Coefficient of Utilization



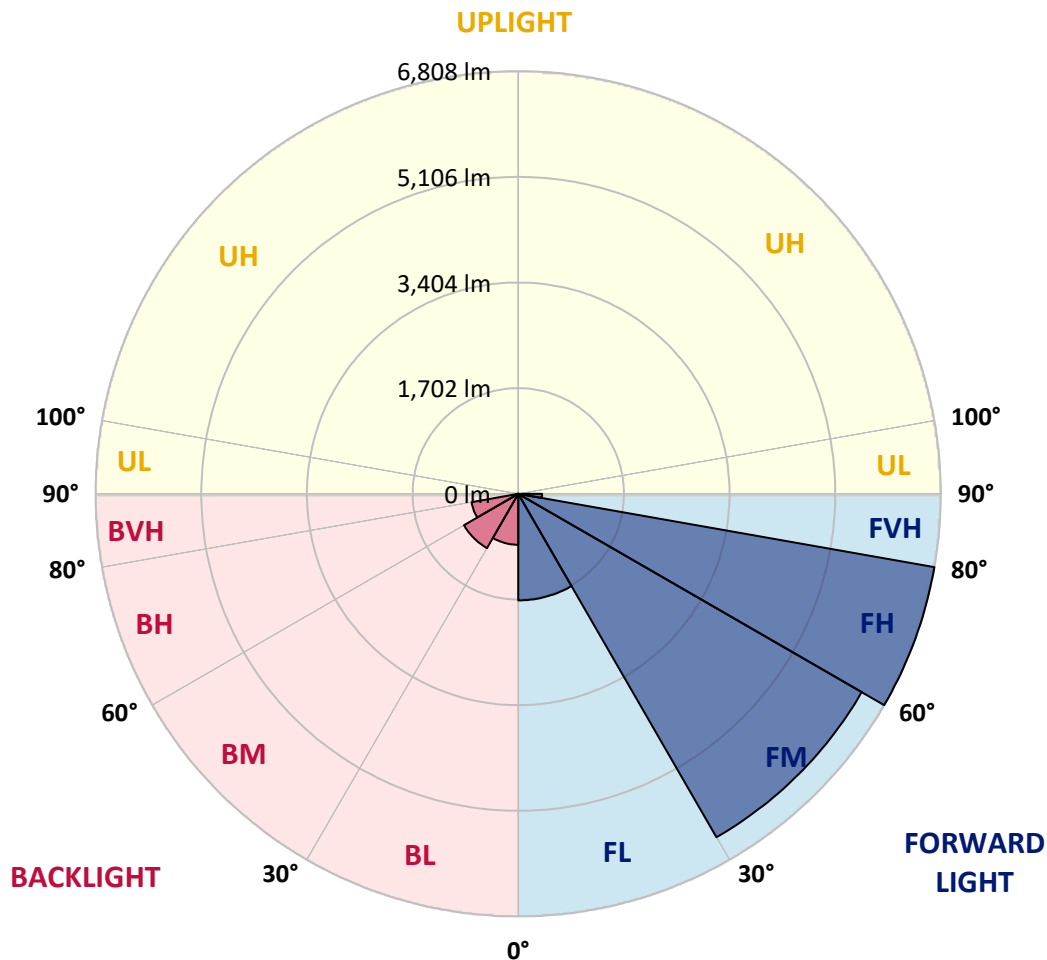
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1716.5	9.6			
FM (30°-60°)	6388.3	35.6			
FH (60°-80°)	6807.9	38.0			G3/7500
FVH (80°-90°)	382.9	2.1			G3/500
BL (0°-30°)	820.9	4.6	B2/1000		
BM (30°-60°)	1010.1	5.6	B2/2500		
BH (60°-80°)	763.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4952.6	4952.6	4952.6	4952.6	4952.6	4952.6	4952.6	4952.6	4952.6	4952.6	4952.6
2.5°	5136.6	5150.5	5146.5	5141.5	5133.5	5111.5	5075.6	5069.5	5046.6	4997.6	4936.7
5°	5057.6	5069.5	5070.6	5077.5	5087.5	5083.5	5057.6	5054.6	5020.6	4954.6	4852.6
7.5°	4786.7	4802.7	4837.7	4876.7	4911.6	4944.6	4952.6	4957.6	4936.7	4860.6	4724.7
10°	4481.8	4497.9	4513.8	4571.8	4657.8	4739.7	4807.7	4816.7	4821.7	4751.7	4585.8
12.5°	4144.0	4177.0	4211.0	4296.9	4411.9	4540.9	4660.7	4679.8	4713.7	4660.7	4465.8
15°	3857.1	3891.1	3940.1	4017.1	4156.0	4341.9	4510.9	4541.8	4608.8	4581.8	4353.9
17.5°	3658.3	3670.2	3704.2	3792.1	3942.1	4138.0	4363.9	4425.9	4532.8	4525.8	4258.0
20°	3501.3	3516.3	3537.3	3591.3	3747.2	3954.1	4226.9	4306.9	4451.8	4475.9	4163.0
22.5°	3435.3	3446.4	3443.3	3472.3	3578.3	3786.2	4088.0	4183.0	4379.9	4441.9	4075.0
25°	3439.3	3449.3	3434.3	3427.3	3490.3	3638.2	3943.1	4064.0	4321.9	4418.9	3995.1
27.5°	3506.3	3513.3	3485.3	3457.3	3462.3	3546.3	3823.2	3957.1	4272.9	4428.9	3928.1
30°	3596.2	3609.2	3591.3	3557.3	3520.3	3524.3	3746.2	3878.1	4250.0	4463.9	3896.1
32.5°	3712.2	3724.2	3716.2	3689.3	3641.3	3588.3	3727.2	3849.1	4251.9	4534.8	3889.2
35°	3834.1	3858.2	3871.2	3869.1	3830.1	3738.2	3802.2	3903.1	4299.9	4653.8	3930.1
37.5°	3972.1	3992.0	4048.0	4084.0	4048.0	3941.1	3971.1	4041.1	4405.9	4825.7	4020.1
40°	4106.1	4136.0	4217.9	4329.9	4315.9	4221.9	4229.0	4274.9	4592.8	5081.6	4196.0
42.5°	4246.0	4281.9	4424.9	4590.8	4623.8	4550.8	4569.8	4610.8	4858.7	5436.4	4497.9
45°	4425.9	4468.8	4644.8	4851.7	4981.6	4936.7	4990.6	5010.6	5214.5	5898.2	4895.6
47.5°	4657.8	4707.7	4924.6	5182.5	5366.4	5407.4	5501.4	5489.4	5655.3	6444.9	5411.4
50°	5048.5	5076.6	5281.5	5544.3	5797.2	5982.1	6084.1	6103.1	6202.0	6976.6	5988.1
52.5°	5513.3	5538.3	5686.2	5916.1	6233.0	6624.8	6876.7	6814.7	6838.7	7624.3	6662.8
55°	6036.1	6078.0	6172.0	6324.9	6735.8	7312.5	7818.3	7833.2	7567.4	8244.1	7309.5
57.5°	6440.9	6511.9	6672.8	6890.7	7411.4	8077.1	8756.8	8766.8	8427.0	8905.7	8023.2
60°	6237.0	6320.9	6688.8	7219.5	8298.0	9411.5	9878.2	9821.2	9263.5	9659.3	8893.7
62.5°	5357.4	5372.4	5907.2	6736.8	8570.9	11196.6	11547.4	11306.5	10380.0	10614.9	9778.3
65°	3467.4	3565.3	3989.1	5151.5	7674.3	12187.2	14472.0	13915.3	11945.2	11699.4	10518.9
67.5°	2189.0	2164.0	2339.8	2941.6	5278.4	11314.6	16967.8	16879.8	13992.3	12384.0	10342.0
69°	1815.2	1843.1	1903.1	2254.9	3632.3	9660.3	17262.7	17870.4	14984.8	12330.1	9699.3
70°	1646.2	1659.2	1722.2	1999.0	2802.7	8091.1	16778.9	17843.4	15374.6	12104.2	9233.5
72.5°	1306.4	1305.3	1413.3	1663.2	2095.0	4618.8	13777.4	15491.6	14938.8	11052.7	7629.3
75°	992.5	1008.5	1127.4	1407.3	1930.1	2523.8	9614.4	11930.3	11931.3	8729.8	4760.7
77.5°	715.7	725.7	864.6	1181.5	1818.1	2046.0	6403.9	8556.9	8044.2	4000.1	1496.3
80°	468.8	474.7	580.8	935.5	1639.2	1930.1	3797.2	5237.5	3794.2	1061.5	494.8
82.5°	256.9	286.9	354.9	605.7	1315.4	1783.1	2307.9	2650.7	1423.3	472.8	257.8
85°	129.0	136.9	199.9	353.8	859.6	1475.3	1607.3	1520.3	734.6	234.9	134.0
87.5°	38.0	48.0	83.0	136.9	348.8	768.6	894.6	802.6	282.9	85.0	28.0
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°	4952.6	4952.6	4952.6	4952.6	4952.6	4952.6	4952.6	4952.6	4952.6	4952.6	4952.6
2.5°	4911.6	4893.7	4813.6	4741.7	4675.8	4605.8	4546.8	4494.8	4499.8	4500.8	4447.8
5°	4799.7	4758.7	4606.8	4464.8	4344.9	4193.0	4063.1	3979.0	3937.1	3881.1	3901.1
7.5°	4647.7	4568.8	4357.9	4122.0	3901.1	3704.2	3490.3	3343.4	3249.5	3158.5	3170.4
10°	4490.8	4363.9	4057.0	3745.2	3459.4	3144.4	2871.7	2637.7	2463.8	2398.9	2355.9
12.5°	4329.9	4163.0	3773.2	3358.4	2963.6	2586.7	2199.9	1949.0	1757.1	1655.2	1668.2
15°	4183.0	3980.1	3477.3	2971.6	2458.9	2010.0	1624.3	1385.4	1251.4	1223.4	1239.4
17.5°	4047.0	3781.2	3200.4	2595.7	1997.0	1507.3	1220.4	1085.5	1031.5	1016.5	1015.5
20°	3907.1	3612.3	2889.6	2194.0	1556.2	1168.5	1001.5	938.6	928.6	934.6	935.5
22.5°	3765.2	3403.4	2569.7	1795.1	1239.4	955.6	875.6	858.6	866.5	880.6	882.6
25°	3634.2	3219.5	2261.9	1445.3	989.6	839.6	800.6	800.6	818.6	839.6	840.6
27.5°	3526.3	3041.6	1955.1	1147.5	828.6	755.7	742.7	749.6	774.6	790.6	791.6
30°	3437.4	2875.6	1665.2	919.6	728.7	688.6	685.7	697.7	715.7	730.6	731.6
32.5°	3370.3	2729.7	1394.4	772.7	659.7	637.7	636.7	645.7	655.7	659.7	663.7
35°	3344.4	2608.7	1146.5	679.6	613.7	599.7	599.7	598.7	602.7	604.7	606.7
37.5°	3365.4	2515.8	954.6	619.7	579.7	569.7	563.8	557.7	555.7	555.7	556.7
40°	3454.4	2466.8	811.6	580.8	555.7	540.7	529.8	522.7	515.8	517.7	519.8
42.5°	3643.2	2475.8	714.6	554.8	534.7	513.7	497.8	489.8	484.8	490.8	489.8
45°	3944.1	2565.7	652.7	536.7	513.7	486.8	471.8	463.8	463.8	472.8	475.8
47.5°	4364.9	2737.7	619.7	522.7	497.8	465.8	450.8	444.8	446.8	461.8	462.8
50°	4878.6	3036.6	613.7	515.8	489.8	450.8	433.8	427.8	432.8	448.8	450.8
52.5°	5445.4	3421.3	642.7	516.8	482.8	441.8	419.8	410.8	415.8	428.8	432.8
55°	6117.0	3903.1	717.6	520.8	472.8	436.8	409.8	389.8	395.8	404.8	405.8
57.5°	6802.7	4510.9	849.6	521.7	464.8	427.8	392.8	366.8	366.8	372.8	375.8
60°	7640.4	5172.5	1023.5	522.7	465.8	414.8	369.8	340.8	336.8	339.8	340.8
62.5°	8471.9	5726.2	1052.5	519.8	475.8	401.8	344.8	314.8	307.9	306.9	304.8
65°	8838.7	5623.3	862.6	505.7	486.8	393.8	324.9	289.9	277.9	273.9	273.9
67.5°	8241.0	4756.7	648.7	486.8	479.7	385.8	305.8	268.9	254.9	246.9	246.9
69°	7679.3	4230.9	582.7	473.8	461.8	372.8	293.9	257.8	240.9	231.9	228.9
70°	7245.5	3869.1	554.8	462.8	444.8	357.8	284.9	249.9	230.9	220.9	218.9
72.5°	5782.2	3035.5	485.8	420.8	378.8	300.8	252.9	224.9	206.9	195.9	192.9
75°	3332.4	1645.2	402.8	365.8	304.8	233.9	213.9	195.9	181.9	171.9	168.9
77.5°	1025.5	635.7	291.8	288.8	223.9	181.0	170.9	164.0	153.9	142.9	140.9
80°	431.8	323.8	197.9	194.9	148.9	125.9	122.9	121.9	117.9	108.9	105.9
82.5°	236.9	182.9	138.0	120.0	90.0	73.0	76.0	77.0	74.0	65.0	59.0
85°	116.0	100.0	66.9	53.9	41.0	26.0	25.0	30.0	28.0	20.0	22.0
87.5°	23.0	28.0	18.0	8.0	4.0	0.0	0.0	0.0	0.0	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)