

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: P454982

Luminaire Tested: **GALN-SA6A-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19899 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

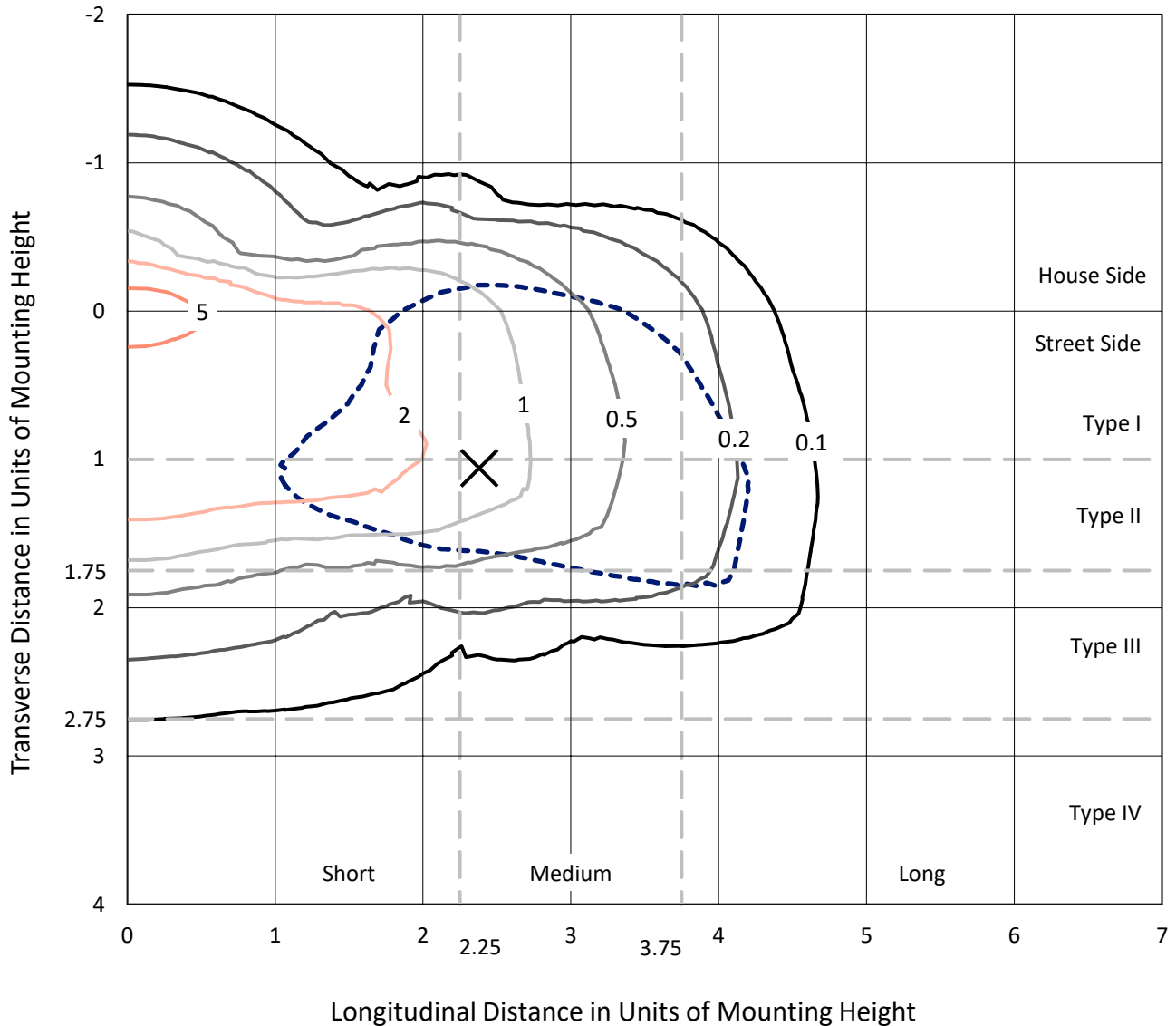
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

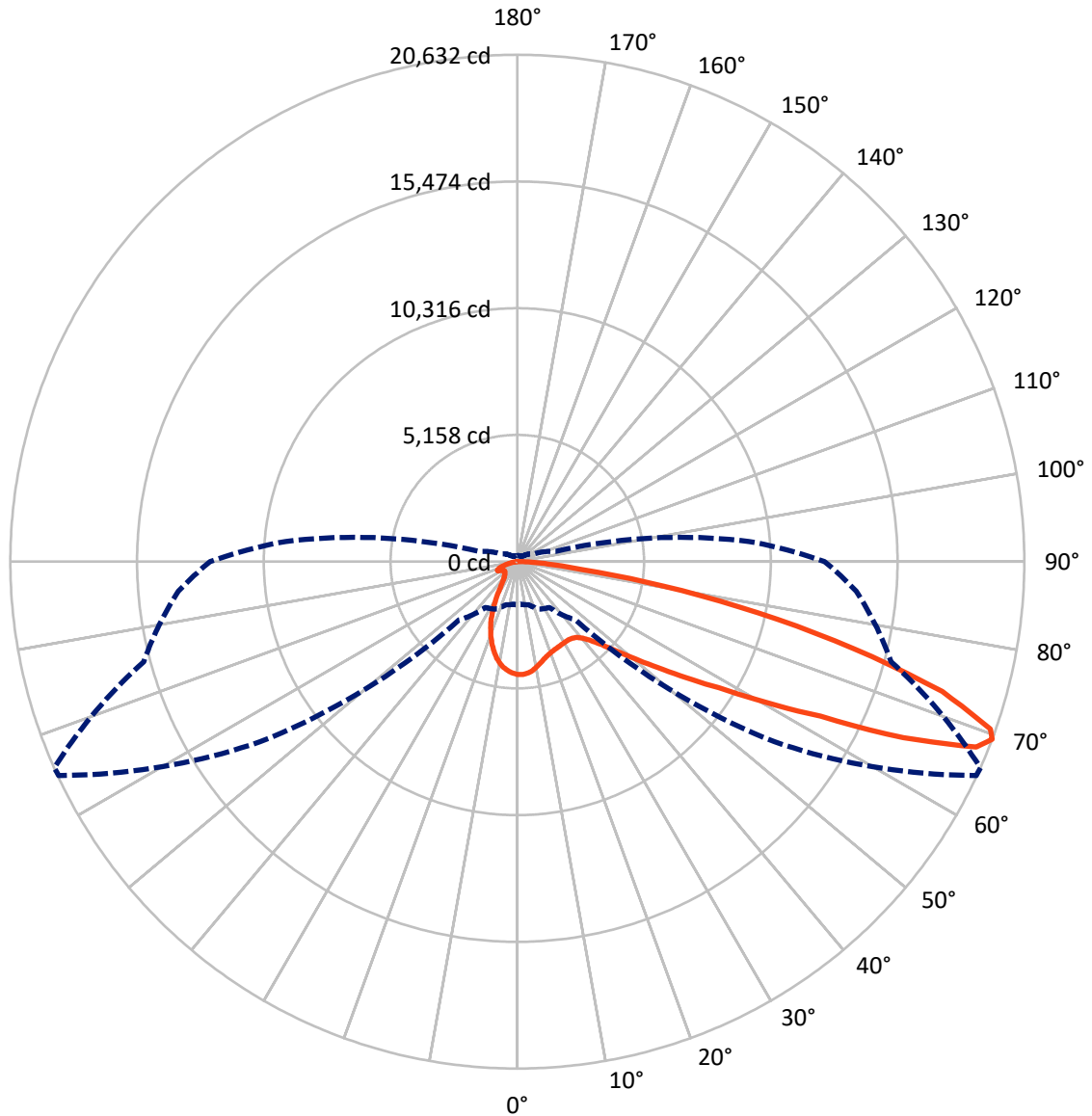
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3742.3	0.0	3742.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16156.7	0.0	16156.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	19899.0	0.0	19899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.0	2.0
10°-20°	946.5	4.8
20°-30°	1288.5	6.5
30°-40°	1731.5	8.7
40°-50°	2585.4	13.0
50°-60°	4112.6	20.7
60°-70°	5058.2	25.4
70°-80°	3291.1	16.5
80°-90°	486.0	2.4
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°	19899.0	100.0
0°-180°	19899.0	100.0

Coefficient of Utilization



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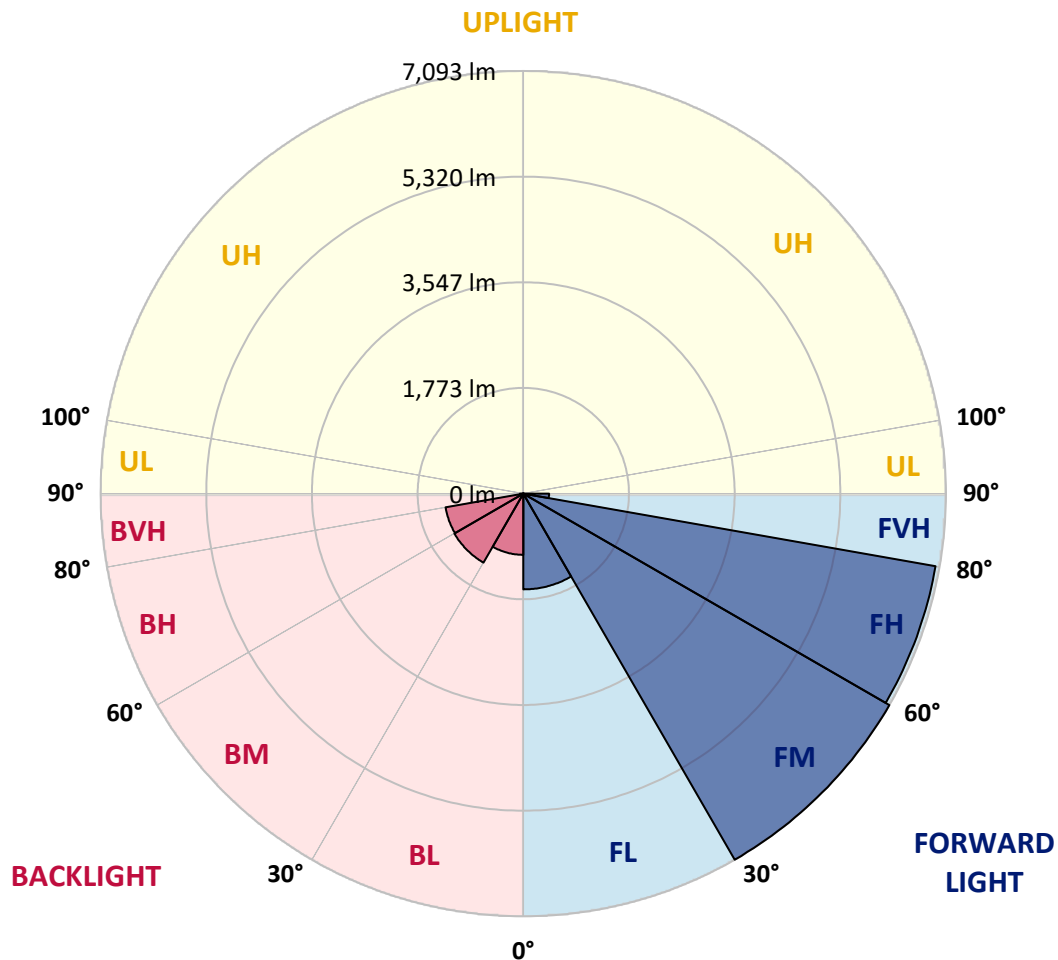
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1606.8	8.1			
FM	(30°-60°)	7093.4	35.6			
FH	(60°-80°)	7024.4	35.3			G3/7500
FVH	(80°-90°)	432.1	2.2			G3/500
BL	(0°-30°)	1027.3	5.2	B3/2500		
BM	(30°-60°)	1336.2	6.7	B2/2500		
BH	(60°-80°)	1324.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	53.9	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4595.2	4595.2	4595.2	4595.2	4595.2	4595.2	4595.2	4595.2	4595.2	4595.2	4595.2
2.5°	4434.3	4452.0	4471.8	4493.9	4535.7	4558.9	4575.4	4594.1	4596.3	4606.3	4598.5
5°	4107.1	4128.0	4157.7	4199.6	4262.4	4360.5	4461.9	4544.5	4554.5	4600.7	4614.0
7.5°	3833.8	3845.9	3870.1	3937.4	4026.6	4135.7	4283.4	4450.9	4475.1	4585.3	4623.9
10°	3611.2	3623.3	3651.9	3721.4	3809.5	3946.2	4108.2	4328.6	4348.4	4537.9	4626.1
12.5°	3444.8	3455.8	3486.6	3555.0	3656.4	3784.2	3962.7	4196.3	4225.0	4475.1	4605.1
15°	3318.0	3339.0	3364.3	3420.5	3527.4	3650.8	3823.9	4075.1	4098.2	4409.0	4590.8
17.5°	3264.0	3274.0	3291.6	3343.4	3421.6	3542.8	3717.0	3980.3	4007.9	4362.7	4587.5
20°	3266.3	3276.2	3279.5	3308.1	3364.3	3469.0	3640.9	3905.4	3938.5	4321.9	4593.0
22.5°	3341.2	3342.3	3330.2	3320.2	3342.3	3429.3	3586.9	3849.2	3887.8	4304.3	4597.4
25°	3456.9	3476.7	3459.1	3412.8	3372.0	3413.9	3566.0	3818.3	3854.7	4279.0	4591.9
27.5°	3644.2	3647.5	3633.2	3570.4	3464.6	3433.8	3557.2	3795.2	3826.1	4260.2	4564.4
30°	3895.5	3885.6	3872.3	3802.9	3636.5	3509.8	3575.9	3774.3	3806.2	4232.7	4531.3
32.5°	4150.0	4180.9	4168.8	4087.2	3871.2	3657.5	3636.5	3772.1	3798.5	4211.7	4495.0
35°	4420.0	4434.3	4491.6	4449.8	4228.3	3896.6	3750.0	3806.2	3827.2	4212.8	4469.6
37.5°	4631.6	4670.2	4804.6	4841.0	4632.7	4212.8	3934.0	3903.2	3912.0	4266.8	4479.5
40°	4887.3	4953.4	5126.4	5275.2	5138.5	4623.9	4247.0	4082.8	4093.8	4396.9	4544.5
42.5°	5211.2	5257.5	5490.0	5691.7	5669.7	5167.2	4626.1	4377.0	4382.6	4655.8	4726.4
45°	5590.3	5656.4	5917.6	6220.6	6272.4	5782.1	5173.8	4822.2	4818.9	5058.1	5065.8
47.5°	6075.2	6116.0	6374.9	6705.5	6914.9	6554.5	5838.3	5461.4	5426.1	5644.3	5581.5
50°	6521.5	6585.4	6781.5	7143.0	7664.2	7459.3	6712.1	6290.1	6207.4	6411.3	6305.5
52.5°	6708.8	6776.0	6941.3	7389.8	8306.7	8629.6	7821.8	7278.5	7140.8	7297.3	7258.7
55°	6383.7	6470.8	6625.1	7170.5	8588.8	9979.5	9318.3	8421.3	8321.0	8253.8	8264.8
57.5°	5509.9	5592.5	5800.8	6402.5	8251.6	10959.1	11455.0	9890.2	9675.3	9365.7	9418.6
60°	4194.1	4245.9	4353.9	5020.6	7252.1	11213.7	13881.6	11747.0	11610.4	10473.2	10510.6
62.5°	2978.6	3037.0	3112.0	3444.8	5309.3	10496.3	15781.4	14340.0	13851.8	11620.3	11584.0
65°	2418.8	2379.2	2469.5	2624.9	3115.3	8134.8	16208.9	17939.0	17266.8	13131.1	12626.4
67.5°	1989.1	1947.2	2036.4	2313.0	2369.2	4722.0	14668.4	20275.2	20140.8	14774.2	13685.4
69°	1761.0	1738.9	1817.2	2132.3	2274.5	3353.3	12778.5	20600.3	20632.3	15742.8	13848.5
70°	1586.8	1595.7	1671.7	2040.9	2231.5	2764.9	10921.7	20151.8	20422.9	16226.6	13672.2
72.5°	1168.1	1186.8	1292.6	1690.4	2190.7	2346.1	6499.4	17601.8	18081.2	16255.2	12507.4
75°	816.6	807.7	901.4	1272.8	2069.5	2325.2	3817.2	13612.7	14156.0	14050.2	10509.5
77.5°	534.5	548.8	623.7	899.2	1741.1	2307.5	2488.3	9657.7	10010.3	9396.5	6216.2
80°	376.9	375.8	417.6	613.8	1291.5	2217.2	2037.6	6087.3	5998.0	3692.7	1843.6
82.5°	216.0	231.4	279.9	432.0	863.9	1951.6	1874.5	2911.4	2658.0	1052.4	622.6
85°	120.1	125.6	166.4	261.2	504.7	1470.0	1636.4	1324.6	1249.6	439.7	267.8
87.5°	38.6	41.9	69.4	132.2	229.2	694.2	926.8	611.6	564.2	158.7	108.0
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°	4595.2	4595.2	4595.2	4595.2	4595.2	4595.2	4595.2	4595.2	4595.2	4595.2	4595.2
2.5°	4601.8	4615.1	4579.8	4545.6	4514.8	4471.8	4433.2	4401.3	4379.2	4375.9	4364.9
5°	4617.3	4618.4	4551.2	4460.8	4372.6	4275.7	4175.4	4103.8	4036.5	3999.1	3980.3
7.5°	4628.3	4618.4	4497.2	4350.6	4180.9	4004.6	3828.3	3687.2	3578.1	3535.1	3551.7
10°	4623.9	4593.0	4415.6	4180.9	3934.0	3670.7	3417.2	3218.9	3037.0	2943.4	2945.6
12.5°	4599.6	4548.9	4294.4	3990.2	3627.7	3275.1	2887.2	2619.4	2408.9	2284.4	2245.8
15°	4578.7	4490.5	4152.2	3731.3	3280.6	2777.0	2304.2	1973.6	1797.3	1699.2	1698.1
17.5°	4556.7	4434.3	3996.9	3456.9	2881.7	2233.7	1737.8	1485.5	1402.8	1412.7	1396.2
20°	4533.5	4368.2	3834.9	3151.6	2395.7	1666.2	1301.4	1198.9	1222.1	1267.3	1273.9
22.5°	4507.1	4297.7	3660.8	2815.5	1884.4	1254.0	1055.7	1040.3	1099.8	1170.3	1180.2
25°	4466.3	4209.5	3441.5	2464.0	1453.5	1010.5	924.6	935.6	994.0	1053.5	1060.1
27.5°	4409.0	4100.4	3220.0	2025.4	1092.1	867.3	845.2	859.5	888.2	924.6	933.4
30°	4331.9	3977.0	2965.4	1646.3	875.0	795.6	786.8	794.5	811.1	826.5	830.9
32.5°	4254.7	3858.0	2708.7	1260.7	780.2	748.2	739.4	739.4	739.4	741.6	742.7
35°	4183.1	3745.6	2433.2	981.9	730.6	710.8	698.7	685.4	683.2	675.5	675.5
37.5°	4143.4	3643.1	2140.0	822.1	694.2	679.9	663.4	641.3	629.2	630.3	628.1
40°	4151.1	3575.9	1873.4	731.7	664.5	649.1	623.7	598.4	590.7	590.7	588.5
42.5°	4238.2	3553.9	1617.7	684.3	635.8	618.2	586.3	563.1	558.7	557.6	559.8
45°	4438.8	3607.9	1388.5	653.5	611.6	585.1	553.2	532.3	527.8	527.8	526.7
47.5°	4830.0	3783.1	1224.3	633.6	594.0	559.8	526.7	505.8	498.1	495.9	495.9
50°	5438.2	4163.3	1102.0	616.0	571.9	536.7	502.5	478.3	466.1	465.0	463.9
52.5°	6283.5	4756.1	1054.6	602.8	547.7	512.4	475.0	451.8	436.4	433.1	430.9
55°	7271.9	5583.7	1119.6	592.9	522.3	484.9	446.3	422.1	407.7	401.1	400.0
57.5°	8416.9	6577.7	1366.4	579.6	499.2	455.1	417.6	393.4	378.0	370.3	368.1
60°	9445.0	7599.2	1797.3	571.9	479.4	423.2	384.6	362.5	348.2	340.5	339.4
62.5°	10574.5	8573.4	2311.9	592.9	470.5	392.3	353.7	333.9	321.8	314.1	314.1
65°	11781.2	9548.6	2652.5	663.4	483.8	368.1	320.7	304.1	293.1	287.6	286.5
67.5°	12594.5	9885.8	2185.2	736.1	516.8	341.6	288.7	275.5	268.9	263.4	263.4
69°	12506.3	9459.3	1612.2	754.9	526.7	328.4	271.1	261.2	252.4	250.1	247.9
70°	12227.5	8973.4	1351.0	742.7	519.0	316.3	260.1	247.9	240.2	238.0	236.9
72.5°	10890.8	7782.1	1006.1	645.8	441.9	274.4	230.3	219.3	212.7	209.4	209.4
75°	9048.3	6360.6	785.7	513.5	346.0	231.4	197.3	188.4	182.9	180.7	179.6
77.5°	5071.3	3551.7	564.2	402.2	262.3	187.3	165.3	157.6	152.1	149.9	149.9
80°	1412.7	1014.9	331.7	265.6	178.5	142.2	131.1	125.6	117.9	112.4	115.7
82.5°	532.3	439.7	189.5	159.8	113.5	94.8	91.5	87.1	83.8	76.0	76.0
85°	259.0	213.8	121.2	84.9	62.8	49.6	47.4	45.2	43.0	37.5	38.6
87.5°	89.3	94.8	52.9	30.9	18.7	12.1	9.9	5.5	5.5	5.5	5.5
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)