

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: P647327

Luminaire Tested: **GALN-SA3D-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647327
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-SA3D-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA 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: 18049.7 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

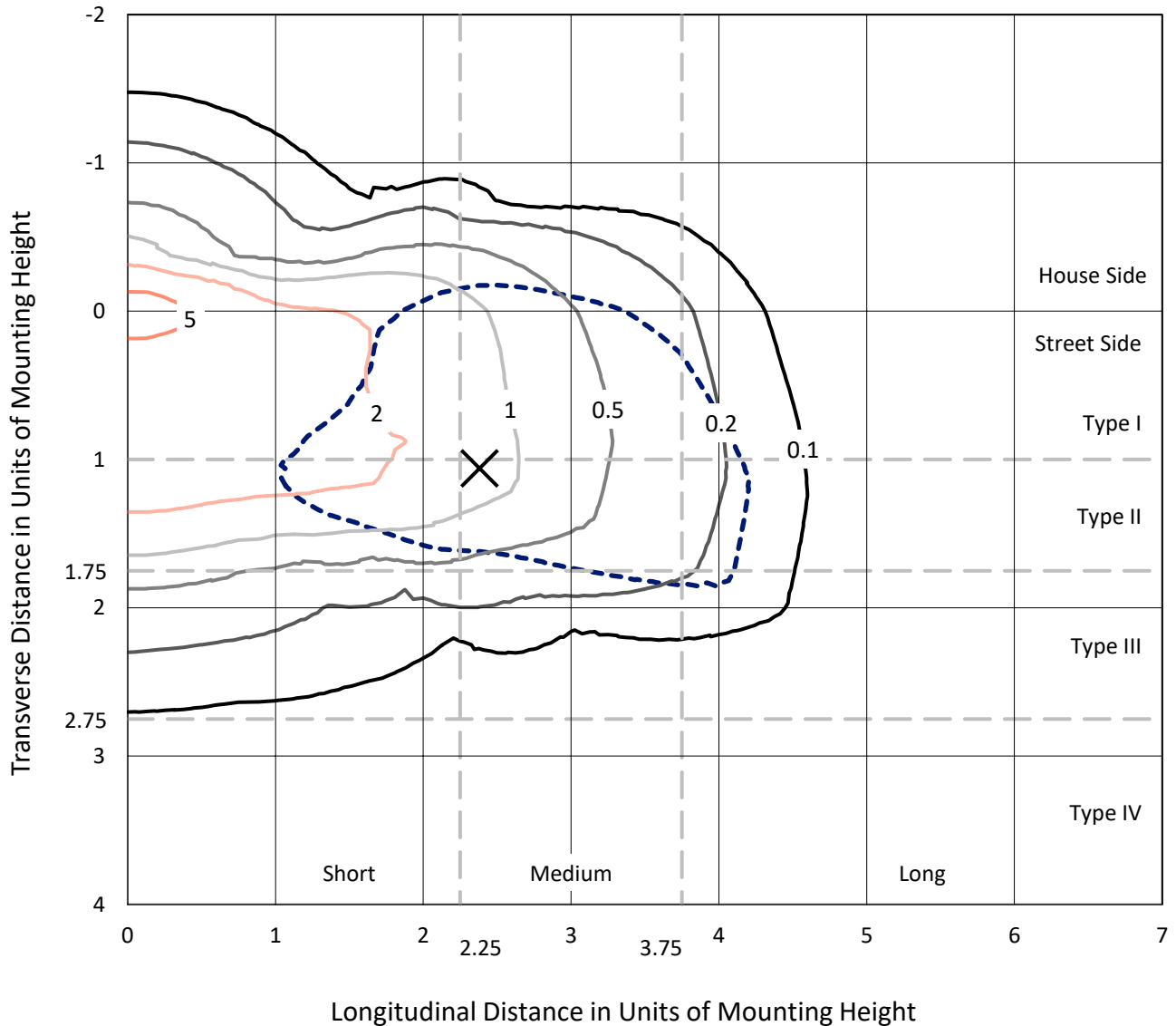
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

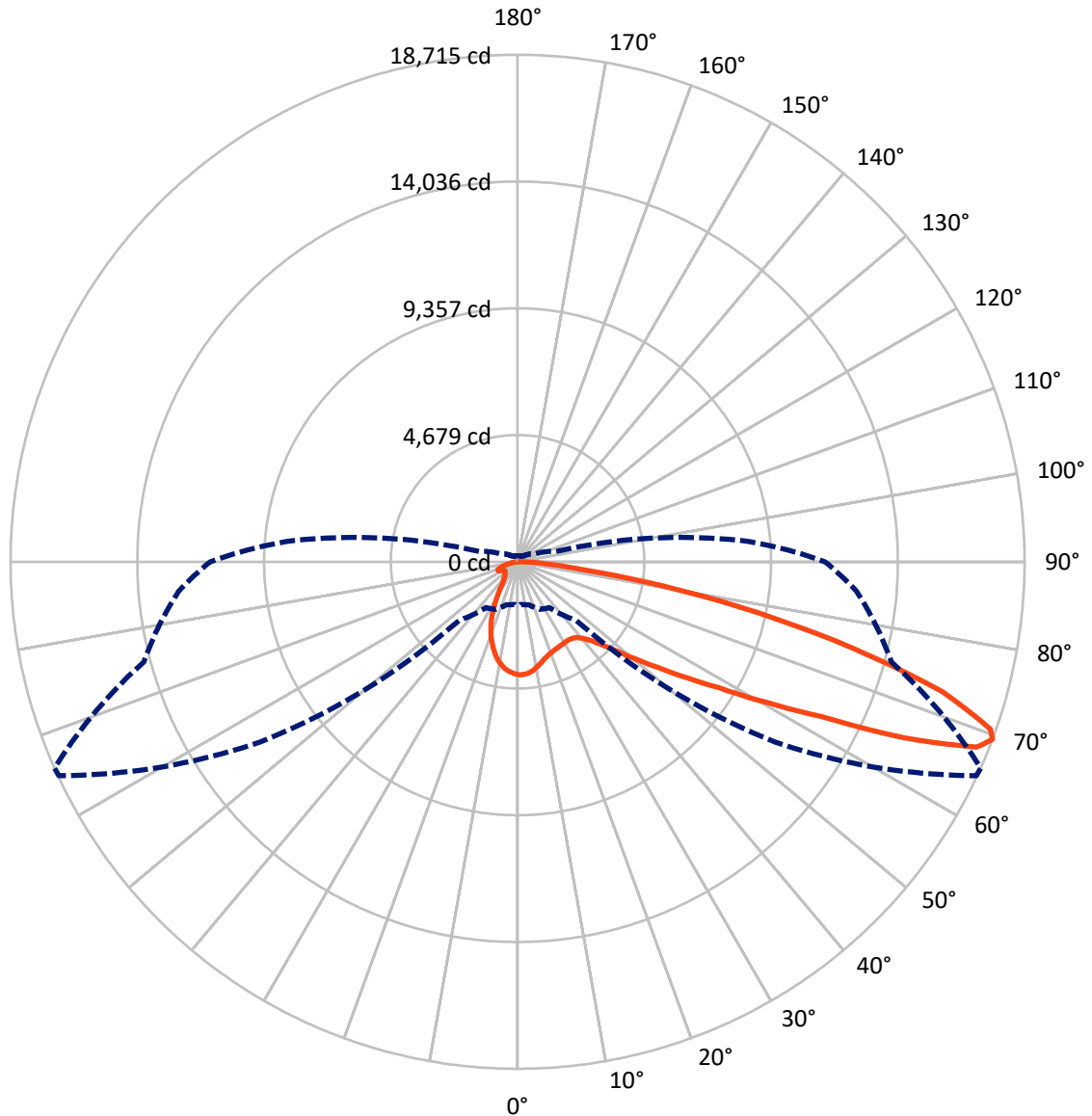
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3394.5	0.0	3394.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14655.2	0.0	14655.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	18049.7	0.0	18049.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.0	2.0
10°-20°	858.5	4.8
20°-30°	1168.8	6.5
30°-40°	1570.6	8.7
40°-50°	2345.2	13.0
50°-60°	3730.4	20.7
60°-70°	4588.2	25.4
70°-80°	2985.3	16.5
80°-90°	440.8	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°	18049.7	100.0
0°-180°	18049.7	100.0

Coefficient of Utilization

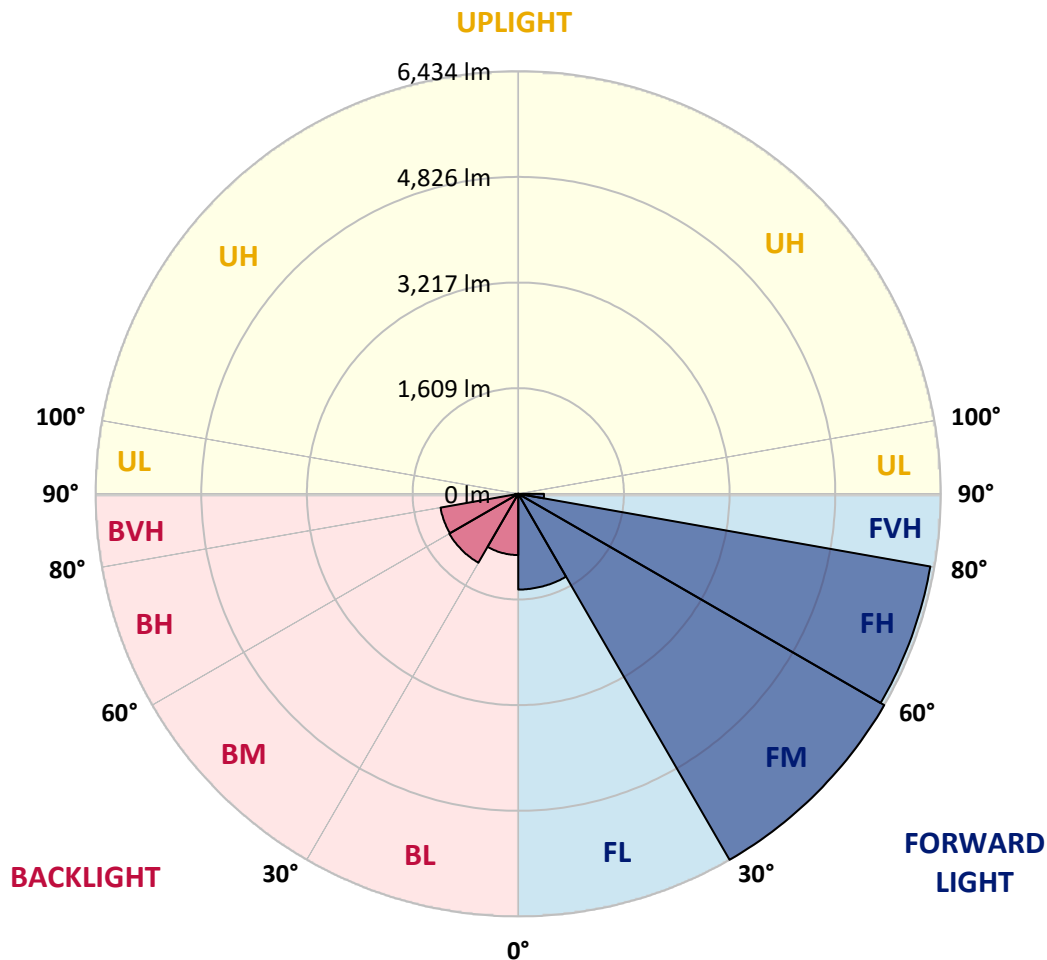


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1457.5	8.1			
FM (30°-60°)	6434.2	35.6			
FH (60°-80°)	6371.6	35.3			G3/7500
FVH (80°-90°)	391.9	2.2			G3/500
BL (0°-30°)	931.8	5.2	B2/1000		
BM (30°-60°)	1212.0	6.7	B2/2500		
BH (60°-80°)	1201.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	48.9	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°	4168.1	4168.1	4168.1	4168.1	4168.1	4168.1	4168.1	4168.1	4168.1	4168.1	4168.1
2.5°	4022.3	4038.2	4056.3	4076.2	4114.2	4135.2	4150.2	4167.2	4169.2	4178.2	4171.2
5°	3725.4	3744.4	3771.3	3809.4	3866.3	3955.2	4047.2	4122.2	4131.2	4173.2	4185.1
7.5°	3477.5	3488.5	3510.5	3571.4	3652.4	3751.4	3885.3	4037.2	4059.2	4159.2	4194.1
10°	3275.6	3286.6	3312.6	3375.5	3455.5	3579.4	3726.4	3926.3	3944.3	4116.2	4196.2
12.5°	3124.6	3134.7	3162.6	3224.6	3316.6	3432.5	3594.4	3806.3	3832.3	4059.2	4177.1
15°	3009.7	3028.6	3051.7	3102.6	3199.6	3311.5	3468.5	3696.4	3717.4	3999.3	4164.2
17.5°	2960.7	2969.7	2985.7	3032.7	3103.7	3213.6	3371.5	3610.4	3635.4	3957.3	4161.2
20°	2962.7	2971.7	2974.7	3000.7	3051.7	3146.6	3302.5	3542.4	3572.4	3920.3	4166.2
22.5°	3030.7	3031.7	3020.7	3011.7	3031.7	3110.6	3253.6	3491.5	3526.5	3904.3	4170.2
25°	3135.6	3153.6	3137.6	3095.7	3058.6	3096.7	3234.6	3463.5	3496.5	3881.3	4165.2
27.5°	3305.6	3308.6	3295.6	3238.6	3142.6	3114.6	3226.6	3442.5	3470.5	3864.3	4140.2
30°	3533.4	3524.4	3512.5	3449.5	3298.5	3183.6	3243.6	3423.5	3452.5	3839.4	4110.2
32.5°	3764.4	3792.4	3781.3	3707.3	3511.4	3317.6	3298.5	3421.5	3445.5	3820.3	4077.2
35°	4009.3	4022.3	4074.2	4036.2	3835.3	3534.5	3401.5	3452.5	3471.5	3821.4	4054.2
37.5°	4201.2	4236.2	4358.1	4391.1	4202.2	3821.4	3568.4	3540.5	3548.5	3870.3	4063.2
40°	4433.0	4493.0	4650.0	4784.9	4661.0	4194.1	3852.3	3703.4	3713.4	3988.3	4122.2
42.5°	4727.0	4768.9	4979.8	5162.7	5142.7	4687.0	4196.2	3970.3	3975.3	4223.2	4287.2
45°	5070.8	5130.8	5367.6	5642.5	5689.5	5244.7	4693.0	4374.1	4371.1	4588.0	4595.0
47.5°	5510.6	5547.6	5782.5	6082.3	6272.3	5945.4	5295.7	4953.8	4921.9	5119.8	5062.8
50°	5915.4	5973.4	6151.3	6479.2	6951.9	6766.1	6088.4	5705.5	5630.6	5815.5	5719.5
52.5°	6085.3	6146.3	6296.3	6703.1	7534.7	7827.6	7094.9	6602.1	6477.2	6619.1	6584.1
55°	5790.4	5869.4	6009.4	6504.1	7790.6	9052.0	8452.3	7638.6	7547.7	7486.7	7496.8
57.5°	4997.8	5072.8	5261.7	5807.4	7484.7	9940.7	10390.5	8971.1	8776.2	8495.3	8543.2
60°	3804.4	3851.3	3949.3	4554.0	6578.1	10171.6	12591.5	10655.4	10531.4	9499.8	9533.8
62.5°	2701.8	2754.8	2822.8	3124.6	4815.9	9520.8	14314.7	13007.4	12564.5	10540.4	10507.4
65°	2194.0	2158.0	2240.0	2380.9	2825.8	7378.8	14702.5	16271.9	15662.2	11910.8	11453.0
67.5°	1804.2	1766.2	1847.2	2098.0	2149.1	4283.2	13305.2	18390.9	18269.0	13401.1	12413.6
69°	1597.3	1577.3	1648.3	1934.2	2063.1	3041.6	11590.9	18685.8	18714.8	14279.8	12561.5
70°	1439.4	1447.4	1516.4	1851.2	2024.1	2507.9	9906.7	18279.1	18524.9	14718.6	12401.6
72.5°	1059.6	1076.5	1172.5	1533.3	1987.1	2128.0	5895.4	15966.0	16400.9	14744.6	11345.0
75°	740.6	732.7	817.6	1154.5	1877.2	2109.1	3462.5	12347.6	12840.4	12744.4	9532.9
77.5°	484.8	497.8	565.7	815.7	1579.3	2093.1	2257.0	8760.2	9080.1	8523.3	5638.5
80°	341.9	340.8	378.8	556.8	1171.5	2011.1	1848.2	5521.6	5440.6	3349.5	1672.3
82.5°	195.9	209.9	253.9	391.8	783.6	1770.2	1700.3	2640.8	2410.9	954.6	564.8
85°	108.9	113.9	151.0	236.9	457.8	1333.4	1484.3	1201.5	1133.5	398.9	242.9
87.5°	35.0	38.0	63.0	120.0	207.9	629.7	840.6	554.8	511.8	143.9	98.0
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°	4168.1	4168.1	4168.1	4168.1	4168.1	4168.1	4168.1	4168.1	4168.1	4168.1	4168.1
2.5°	4174.2	4186.2	4154.2	4123.2	4095.2	4056.3	4021.3	3992.3	3972.2	3969.3	3959.2
5°	4188.2	4189.2	4128.2	4046.2	3966.3	3878.3	3787.4	3722.4	3661.4	3627.4	3610.4
7.5°	4198.1	4189.2	4079.2	3946.2	3792.4	3632.4	3472.4	3344.5	3245.6	3206.6	3221.6
10°	4194.1	4166.2	4005.3	3792.4	3568.4	3329.6	3099.7	2919.7	2754.8	2669.9	2671.8
12.5°	4172.2	4126.2	3895.3	3619.4	3290.6	2970.7	2618.8	2375.9	2185.0	2072.1	2037.1
15°	4153.2	4073.2	3766.4	3384.5	2975.7	2518.9	2090.1	1790.3	1630.3	1541.3	1540.3
17.5°	4133.2	4022.3	3625.4	3135.6	2613.9	2026.1	1576.3	1347.4	1272.5	1281.5	1266.4
20°	4112.2	3962.3	3478.5	2858.7	2173.1	1511.3	1180.5	1087.5	1108.5	1149.5	1155.5
22.5°	4088.2	3898.3	3320.5	2553.9	1709.3	1137.5	957.6	943.6	997.5	1061.5	1070.5
25°	4051.2	3818.3	3121.7	2235.0	1318.4	916.6	838.7	848.6	901.6	955.6	961.6
27.5°	3999.3	3719.4	2920.7	1837.2	990.6	786.7	766.6	779.6	805.6	838.7	846.7
30°	3929.3	3607.4	2689.8	1493.3	793.6	721.7	713.7	720.7	735.7	749.6	753.6
32.5°	3859.3	3499.5	2456.9	1143.5	707.7	678.7	670.7	670.7	670.7	672.7	673.7
35°	3794.3	3397.5	2207.0	890.6	662.7	644.7	633.8	621.7	619.7	612.7	612.7
37.5°	3758.3	3304.6	1941.1	745.7	629.7	616.8	601.7	581.8	570.7	571.7	569.8
40°	3765.4	3243.6	1699.3	663.7	602.8	588.7	565.7	542.8	535.7	535.7	533.8
42.5°	3844.3	3223.6	1467.3	620.8	576.8	560.8	531.7	510.8	506.8	505.8	507.8
45°	4026.3	3272.5	1259.5	592.7	554.8	530.8	501.7	482.8	478.8	478.8	477.8
47.5°	4381.1	3431.5	1110.5	574.7	538.8	507.8	477.8	458.8	451.8	449.8	449.8
50°	4932.8	3776.3	999.6	558.7	518.7	486.8	455.8	433.8	422.8	421.8	420.8
52.5°	5699.5	4314.1	956.6	546.8	496.8	464.8	430.8	409.8	395.8	392.8	390.8
55°	6596.1	5064.8	1015.6	537.8	473.8	439.8	404.8	382.8	369.8	363.9	362.8
57.5°	7634.6	5966.4	1239.5	525.8	452.8	412.8	378.8	356.8	342.9	335.8	333.9
60°	8567.3	6893.0	1630.3	518.7	434.8	383.8	348.8	328.9	315.9	308.9	307.9
62.5°	9591.8	7776.6	2097.1	537.8	426.8	355.9	320.9	302.9	291.9	284.9	284.9
65°	10686.3	8661.2	2405.9	601.7	438.8	333.9	290.9	275.9	265.9	260.9	259.9
67.5°	11424.0	8967.1	1982.2	667.7	468.8	309.8	261.9	249.9	243.9	238.9	238.9
69°	11344.0	8580.3	1462.3	684.7	477.8	297.9	245.9	236.9	228.9	226.9	224.9
70°	11091.2	8139.4	1225.5	673.7	470.8	286.9	235.9	224.9	217.9	215.9	214.9
72.5°	9878.7	7058.9	912.6	585.8	400.8	248.9	208.9	198.9	192.9	190.0	190.0
75°	8207.4	5769.5	712.7	465.8	313.8	209.9	178.9	170.9	165.9	164.0	162.9
77.5°	4600.0	3221.6	511.8	364.9	237.9	169.9	149.9	143.0	138.0	135.9	135.9
80°	1281.5	920.6	300.9	240.9	161.9	129.0	118.9	113.9	107.0	101.9	104.9
82.5°	482.8	398.9	171.9	144.9	103.0	86.0	83.0	78.9	76.0	69.0	69.0
85°	234.9	193.9	109.9	77.0	57.0	44.9	43.0	41.0	39.0	34.0	35.0
87.5°	81.0	86.0	48.0	28.0	17.0	11.0	9.0	5.0	5.0	5.0	5.0
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)