

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: P299246

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-SL2-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22146.8 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 193
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: 25 FT

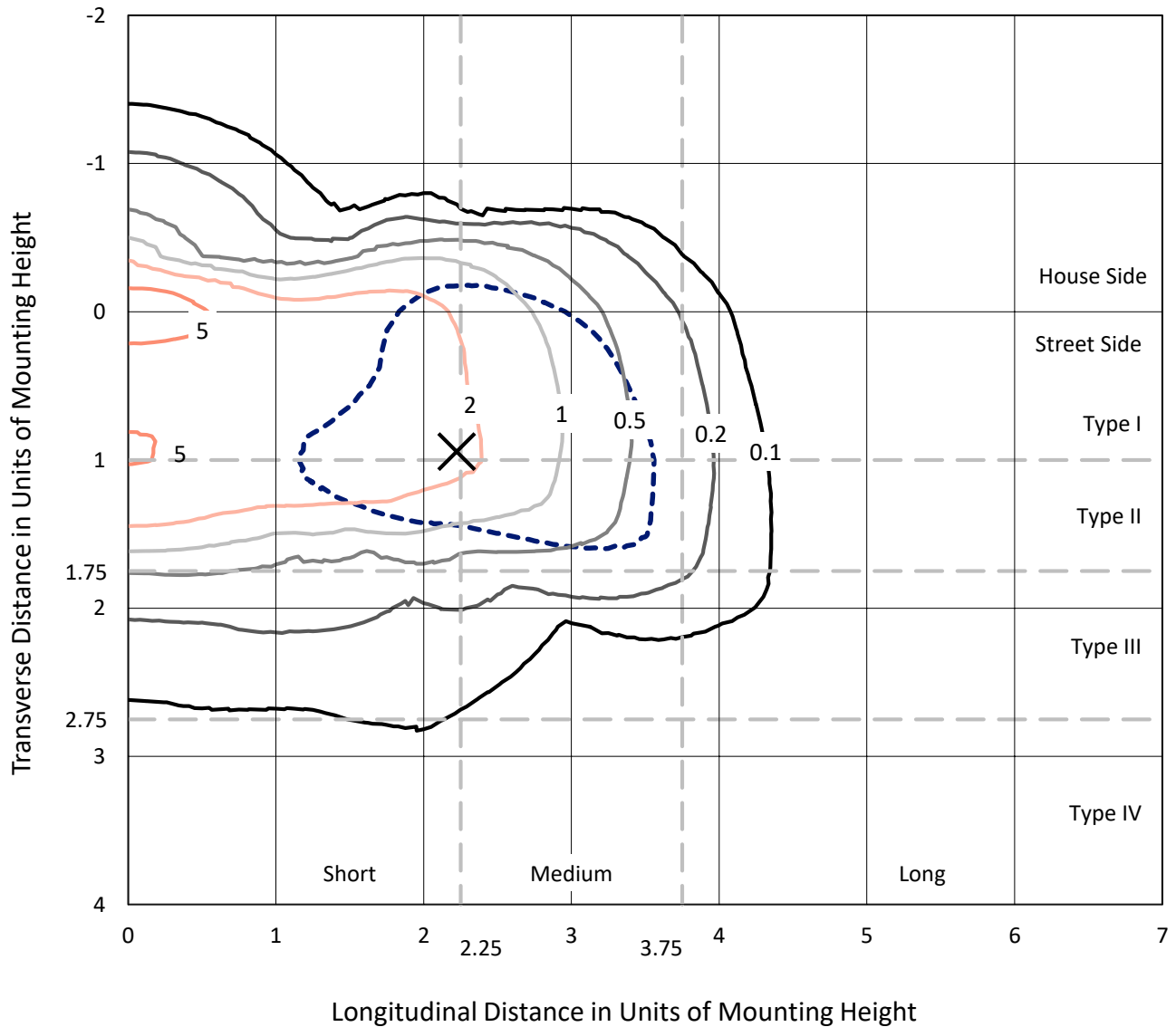


REPORT NUMBER: P299246

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030-600

Iso-Footcandle Lines of Horizontal Illumination

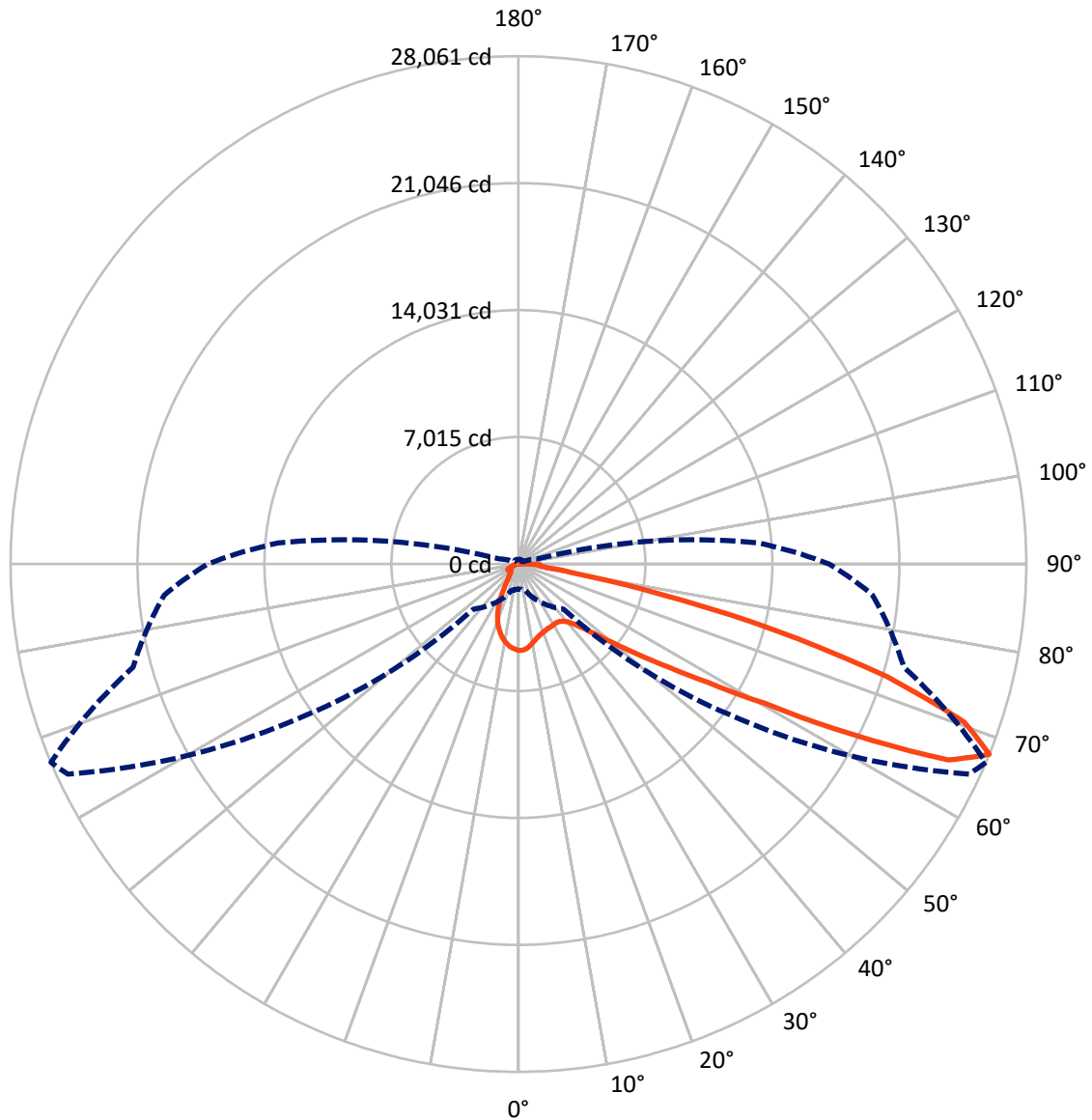
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P299246
CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P299246

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3669.5	0.0	3669.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	18477.3	0.0	18477.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	22146.8	0.0	22146.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.6	1.8
10°-20°	943.0	4.3
20°-30°	1278.3	5.8
30°-40°	1817.2	8.2
40°-50°	3040.2	13.7
50°-60°	4809.6	21.7
60°-70°	6127.0	27.7
70°-80°	3209.3	14.5
80°-90°	514.7	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°	22146.8	100.0
0°-180°	22146.8	100.0



REPORT NUMBER: P299246

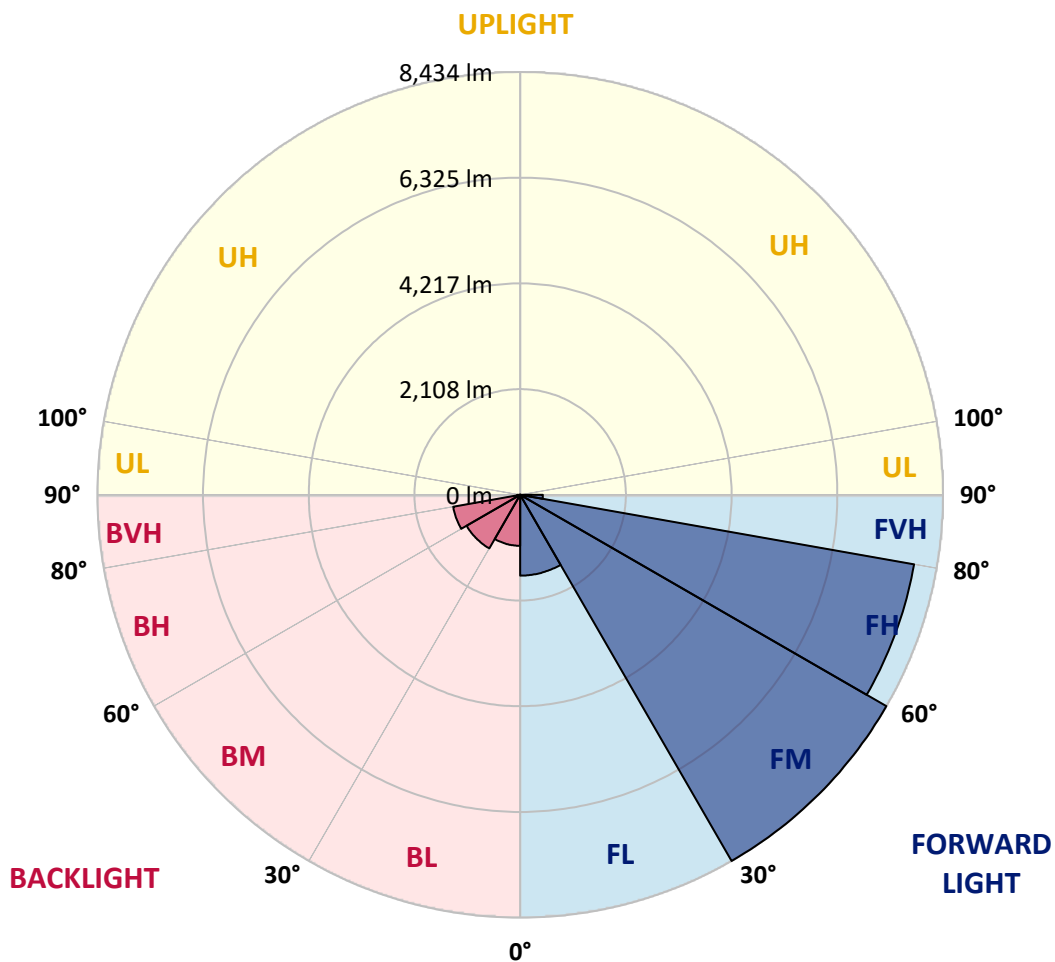
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1611.7	7.3			
FM (30°-60°)	8434.0	38.1			
FH (60°-80°)	7979.0	36.0			G4/12000
FVH (80°-90°)	452.6	2.0			G3/500
BL (0°-30°)	1017.1	4.6	B3/2500		
BM (30°-60°)	1233.1	5.6	B2/2500		
BH (60°-80°)	1357.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	62.1	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-G4

Type II Short





REPORT NUMBER: P299246

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0
2.5°	4580.4	4588.1	4612.1	4627.4	4696.2	4725.7	4746.4	4767.2	4770.5	4780.3	4770.5
5°	4099.9	4116.3	4161.1	4211.3	4344.5	4449.4	4559.7	4674.4	4695.1	4769.4	4790.1
7.5°	3727.5	3723.1	3760.2	3820.3	3956.8	4102.1	4295.4	4523.6	4568.4	4735.5	4816.3
10°	3455.5	3452.3	3491.6	3553.8	3683.8	3821.4	4039.8	4352.2	4415.5	4682.0	4841.5
12.5°	3254.6	3255.7	3295.0	3363.8	3495.9	3634.6	3856.3	4186.2	4267.0	4619.7	4867.7
15°	3121.3	3130.1	3161.7	3234.9	3363.8	3502.5	3719.8	4061.7	4152.3	4570.6	4897.2
17.5°	3076.6	3090.8	3101.7	3155.2	3265.5	3404.2	3617.2	3969.9	4066.0	4536.7	4923.4
20°	3118.1	3134.4	3113.7	3132.3	3202.2	3324.5	3536.3	3897.8	3996.1	4498.5	4926.6
22.5°	3296.1	3311.4	3250.2	3196.7	3192.3	3266.6	3469.7	3841.1	3942.6	4470.1	4927.7
25°	3609.5	3619.3	3516.7	3392.2	3271.0	3245.8	3422.8	3801.7	3909.9	4445.0	4907.0
27.5°	3994.0	4001.6	3883.6	3700.2	3456.6	3295.0	3406.4	3778.8	3891.3	4423.2	4872.0
30°	4461.4	4497.4	4339.1	4107.5	3752.6	3440.2	3439.1	3766.8	3870.5	4386.0	4803.2
32.5°	4939.7	4955.0	4845.8	4611.0	4151.2	3695.8	3530.9	3775.5	3865.1	4341.3	4715.9
35°	5424.7	5444.3	5373.3	5184.4	4696.2	4070.4	3710.0	3826.9	3898.9	4326.0	4654.7
37.5°	6052.6	6078.8	5980.6	5762.1	5359.1	4578.2	4008.2	3955.7	4002.7	4369.6	4636.1
40°	7045.4	7033.4	6746.1	6420.7	6084.3	5228.1	4434.1	4174.2	4201.5	4510.5	4692.9
42.5°	8200.9	8171.4	7676.6	7165.5	6881.6	6014.4	4997.6	4553.1	4547.7	4787.9	4892.8
45°	9122.6	9098.6	8653.0	8022.9	7795.7	6910.0	5726.1	5117.8	5077.4	5228.1	5261.9
47.5°	9621.7	9622.8	9366.2	8851.8	8846.3	8048.0	6662.0	5934.7	5864.8	5935.8	5899.7
50°	9447.0	9469.9	9442.6	9278.8	9805.2	9539.8	7884.2	7073.8	6932.9	7002.8	6864.1
52.5°	8601.7	8631.2	8792.8	9044.0	10208.2	11343.0	9679.6	8489.2	8325.4	8300.3	8146.3
55°	7103.3	7139.3	7469.1	8151.7	9872.9	12554.1	12512.6	10293.4	10032.4	9795.4	9729.9
57.5°	4896.1	4956.1	5486.9	6500.4	8788.4	12920.0	15886.3	12865.4	12334.6	11506.8	11522.1
60°	2759.8	2829.7	3455.5	4376.2	6599.8	12522.5	18452.8	16761.1	15640.5	13510.9	13624.4
62.5°	1755.1	1830.4	2305.5	3040.5	3960.1	10381.9	19504.5	22177.0	20753.9	15981.3	16092.7
65°	1420.9	1453.6	1677.5	2509.7	2875.6	6254.7	18706.2	26638.4	26107.6	19116.8	18596.9
67.5°	1387.0	1397.9	1513.7	2106.7	2757.7	3515.6	14920.8	27472.8	28061.4	22044.8	19639.9
70°	1370.6	1408.9	1705.9	2010.6	2640.8	2965.2	8966.5	25185.8	26115.2	22810.4	18251.8
72.5°	665.1	662.9	858.4	1818.4	2975.0	3075.5	4606.6	20378.2	21310.9	19762.3	14998.3
75°	536.2	490.4	468.5	666.2	2860.3	3175.9	2935.7	14022.0	14696.9	13249.8	9219.8
77.5°	508.9	454.3	416.1	417.2	1209.0	3368.2	2486.8	7760.7	7957.3	5984.9	2526.1
80°	421.6	371.3	344.0	387.7	585.4	3207.6	2688.8	3512.3	3222.9	1470.0	840.9
82.5°	292.7	266.5	258.8	325.5	468.5	2285.8	3126.8	1887.2	1582.5	736.1	518.8
85°	186.8	159.5	176.9	237.0	364.8	1055.0	3220.7	1471.1	1169.7	467.4	292.7
87.5°	86.3	69.9	87.4	131.1	238.1	363.7	3064.5	1652.4	1204.6	246.8	184.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299246

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0
2.5°	4779.2	4758.5	4742.1	4711.5	4677.6	4644.9	4615.4	4578.2	4567.3	4557.5	4572.8
5°	4794.5	4773.7	4713.7	4619.7	4516.0	4418.8	4321.6	4238.6	4187.3	4158.9	4175.2
7.5°	4817.4	4787.9	4663.4	4490.9	4304.1	4133.7	3957.9	3817.0	3713.3	3664.1	3678.3
10°	4838.2	4781.4	4578.2	4319.4	4046.4	3793.0	3515.6	3286.2	3115.9	3026.3	3048.2
12.5°	4846.9	4756.3	4459.2	4105.4	3730.7	3359.4	2951.0	2608.0	2363.4	2273.8	2255.3
15°	4855.7	4727.9	4328.1	3861.8	3349.6	2824.3	2252.0	1841.3	1638.2	1593.4	1583.6
17.5°	4857.8	4678.7	4179.6	3597.5	2902.9	2187.6	1539.9	1278.9	1280.0	1352.1	1360.8
20°	4834.9	4605.6	3999.4	3268.8	2367.8	1512.6	1057.2	1012.4	1177.3	1357.5	1379.4
22.5°	4782.5	4508.4	3795.2	2885.4	1755.1	996.0	818.0	867.2	1080.1	1300.7	1325.9
25°	4715.9	4390.4	3553.8	2440.9	1162.0	712.1	685.9	745.9	890.1	1037.5	1051.7
27.5°	4625.2	4250.6	3283.0	1932.0	754.7	586.5	604.0	644.4	703.3	768.9	775.4
30°	4508.4	4083.5	2993.6	1408.9	570.1	527.5	552.6	574.5	599.6	636.7	640.0
32.5°	4374.0	3923.0	2696.5	973.1	505.7	496.9	516.6	527.5	547.2	570.1	572.3
35°	4261.5	3770.1	2388.5	688.0	478.4	474.0	487.1	491.5	510.0	535.1	537.3
37.5°	4197.1	3645.6	2070.7	554.8	459.8	453.2	460.9	460.9	487.1	524.2	529.7
40°	4201.5	3576.8	1752.9	501.3	444.5	435.8	436.9	436.9	470.7	511.1	514.4
42.5°	4320.5	3594.2	1471.1	480.5	432.5	422.7	417.2	420.5	448.9	475.1	477.3
45°	4600.1	3717.6	1206.8	467.4	420.5	417.2	405.2	404.1	415.0	427.0	427.0
47.5°	5058.8	3961.2	1027.7	458.7	410.6	409.6	395.4	381.2	380.1	384.4	384.4
50°	5804.7	4380.6	907.6	448.9	404.1	395.4	379.0	357.1	349.5	352.8	352.8
52.5°	6923.1	5128.7	861.7	435.8	389.9	375.7	357.1	335.3	328.7	329.8	329.8
55°	8389.8	6277.6	855.1	420.5	374.6	351.7	336.4	320.0	312.4	314.5	314.5
57.5°	10182.0	7866.7	972.0	396.4	353.9	327.6	318.9	308.0	302.5	305.8	304.7
60°	12360.8	9946.1	1441.6	371.3	333.1	305.8	305.8	297.1	292.7	296.0	294.9
62.5°	14870.6	12334.6	2027.0	352.8	311.3	288.3	292.7	288.3	284.0	286.1	285.0
65°	17096.3	13890.9	1898.1	338.6	289.4	271.9	279.6	277.4	274.1	276.3	275.2
67.5°	17160.8	13314.3	1065.9	323.3	268.7	255.6	266.5	265.4	263.2	265.4	264.3
70°	15315.1	11242.5	600.7	294.9	246.8	235.9	251.2	250.1	247.9	252.3	251.2
72.5°	12270.2	8158.3	439.0	259.9	225.0	215.2	232.6	231.5	231.5	238.1	234.8
75°	7060.7	4198.2	350.6	222.8	202.0	194.4	209.7	210.8	213.0	221.7	215.2
77.5°	2012.8	1308.4	286.1	188.9	173.7	170.4	185.7	187.8	188.9	198.8	190.0
80°	748.1	602.9	235.9	158.4	142.0	143.1	157.3	160.5	161.6	171.5	160.5
82.5°	477.3	397.5	191.1	122.3	111.4	110.3	127.8	132.1	132.1	133.2	126.7
85°	278.5	238.1	144.2	88.5	78.6	75.4	95.0	102.7	99.4	97.2	92.8
87.5°	186.8	163.8	88.5	49.1	42.6	40.4	55.7	61.2	59.0	55.7	52.4
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)