

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: P299966

Luminaire Tested: **GLNA-AF-06-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22609.1 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

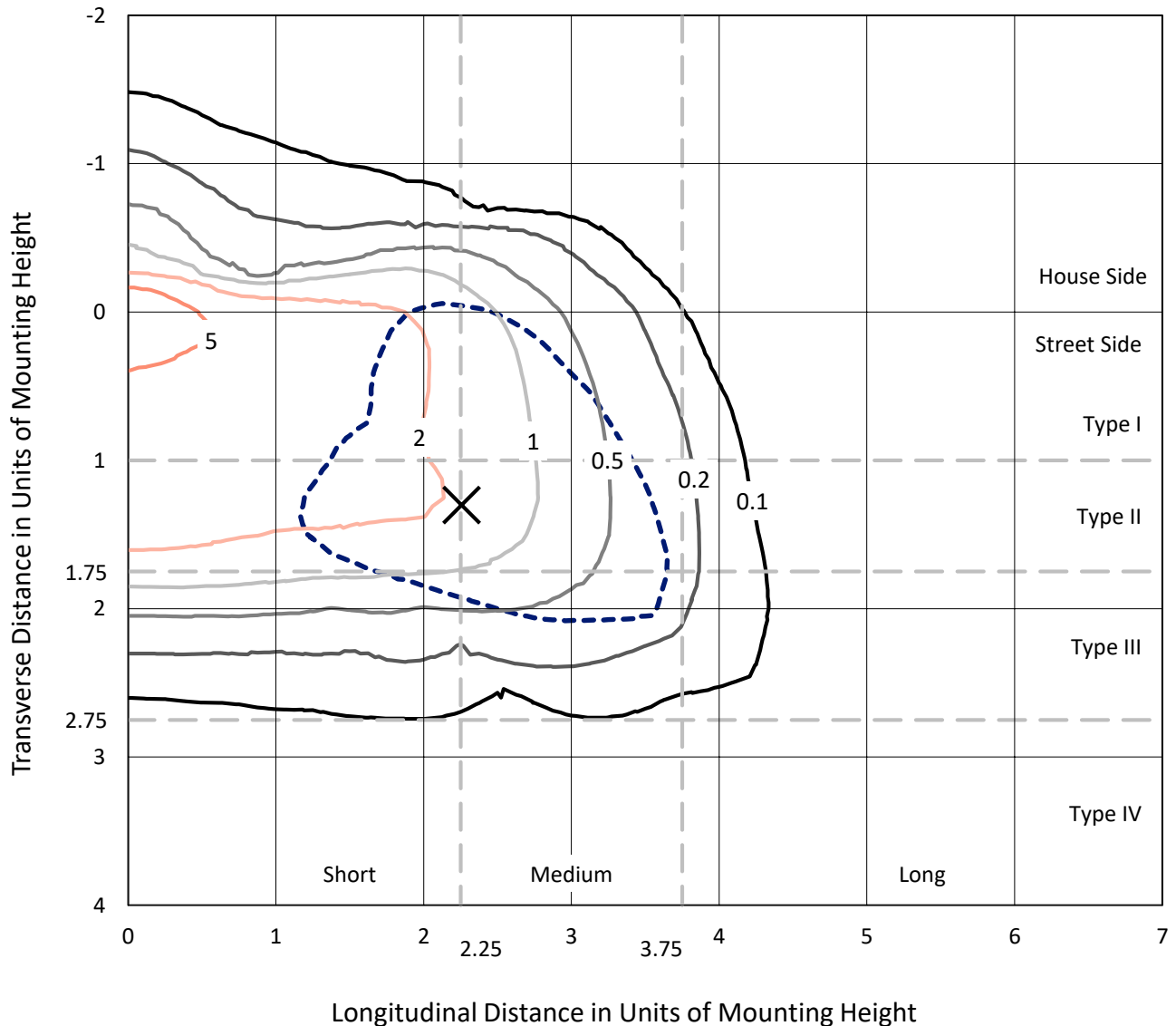
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299966
 CATALOG NUMBER: GLNA-AF-06-LED-E1-SL3-7030-600

Iso-Footcandle Lines of Horizontal Illumination

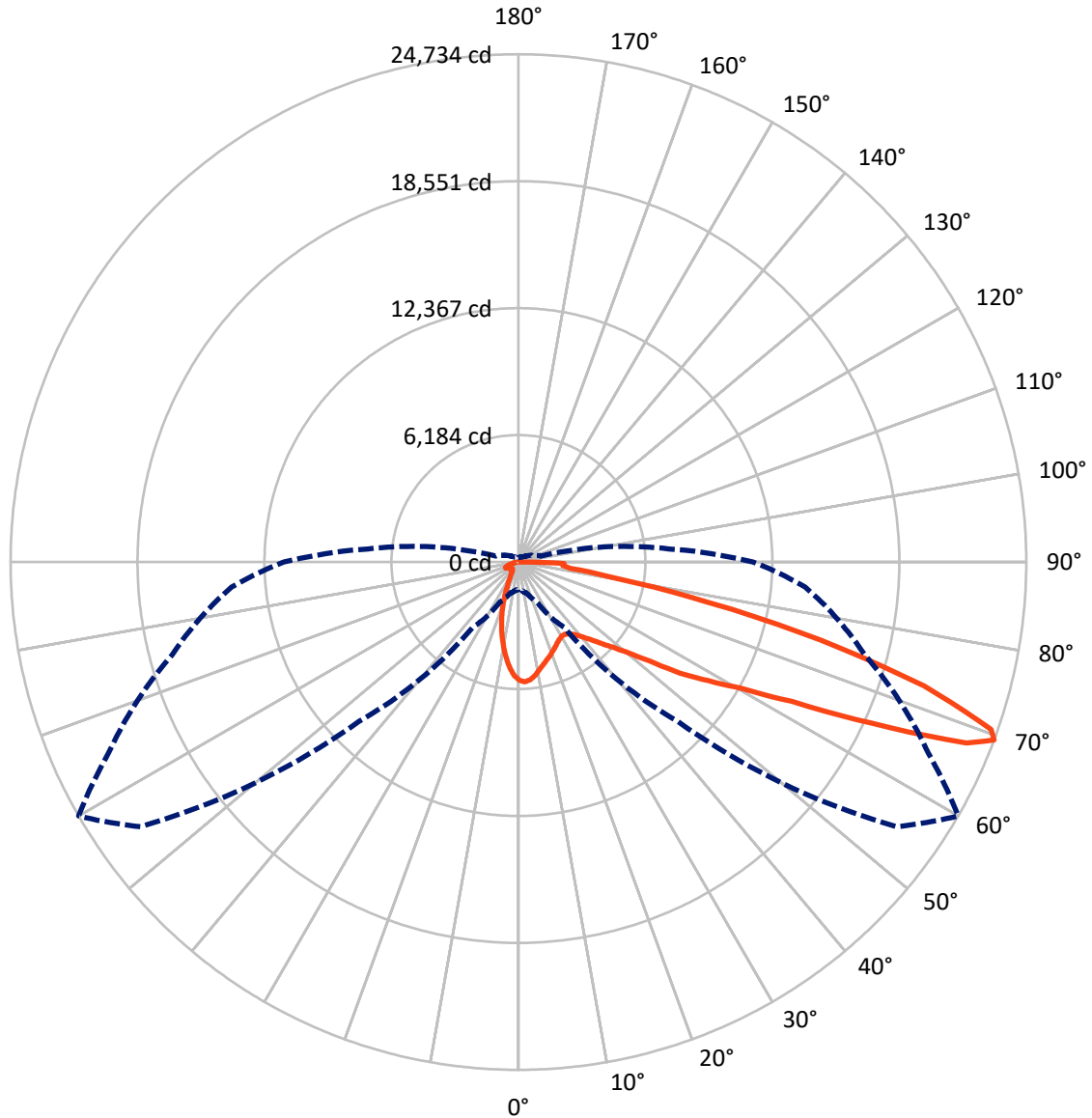
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P299966
CATALOG NUMBER: GLNA-AF-06-LED-E1-SL3-7030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P299966

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL3-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3216.6	0.0	3216.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19392.5	0.0	19392.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	22609.1	0.0	22609.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.1	2.2
10°-20°	1037.9	4.6
20°-30°	1322.4	5.8
30°-40°	1818.0	8.0
40°-50°	2949.8	13.0
50°-60°	4730.8	20.9
60°-70°	6296.3	27.8
70°-80°	3399.5	15.0
80°-90°	567.2	2.5
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°	22609.1	100.0
0°-180°	22609.1	100.0

Coefficient of Utilization



REPORT NUMBER: P299966

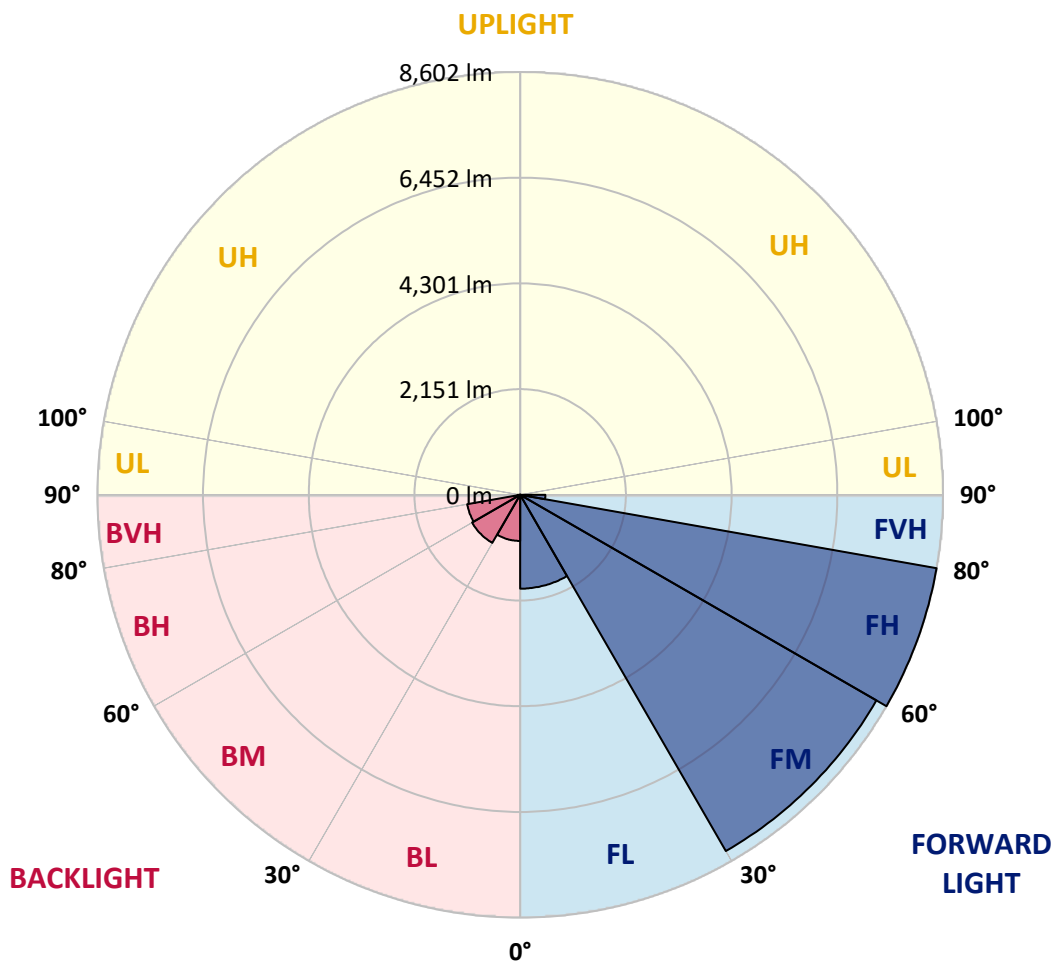
CATALOG NUMBER: GLNA-AF-06-LED-E1-SL3-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1909.0	8.4			
FM	(30°-60°)	8368.6	37.0			
FH	(60°-80°)	8602.3	38.0			G4/12000
FVH	(80°-90°)	512.6	2.3			G4/750
BL	(0°-30°)	938.4	4.2	B2/1000		
BM	(30°-60°)	1130.0	5.0	B2/2500		
BH	(60°-80°)	1093.5	4.8	B3/2500		G3/2500
BVH	(80°-90°)	54.6	0.2			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 III Medium





REPORT NUMBER: P299966

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL3-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5761.1	5761.1	5761.1	5761.1	5761.1	5761.1	5761.1	5761.1	5761.1	5761.1	5761.1
2.5°	5879.1	5892.2	5886.7	5883.5	5893.3	5878.0	5846.3	5836.5	5821.2	5785.2	5724.0
5°	5658.5	5697.8	5695.6	5725.1	5774.2	5787.4	5773.2	5775.3	5746.9	5702.2	5600.6
7.5°	5277.3	5293.7	5302.4	5366.9	5456.4	5528.5	5589.7	5609.3	5596.2	5558.0	5426.9
10°	4884.1	4897.2	4918.0	4993.4	5106.9	5206.3	5322.1	5388.7	5417.1	5410.6	5264.2
12.5°	4546.7	4559.8	4587.1	4672.3	4807.7	4930.0	5098.2	5181.2	5248.9	5289.3	5132.1
15°	4244.1	4272.5	4298.7	4397.0	4548.8	4709.4	4899.4	5004.3	5109.1	5199.8	5015.2
17.5°	4008.2	4036.6	4051.9	4141.5	4303.1	4499.7	4722.5	4845.9	4977.0	5125.5	4899.4
20°	3871.7	3884.8	3878.3	3928.5	4073.8	4282.4	4546.7	4689.7	4848.1	5055.6	4783.7
22.5°	3833.5	3834.6	3810.5	3805.1	3899.0	4074.8	4358.8	4532.5	4726.9	5009.7	4684.3
25°	3926.3	3923.0	3857.5	3804.0	3813.8	3916.5	4177.5	4379.6	4625.3	4999.9	4607.8
27.5°	4132.7	4142.6	4045.4	3944.9	3845.5	3842.2	4039.9	4252.9	4542.3	5044.7	4575.1
30°	4422.2	4438.5	4334.8	4207.0	4020.2	3866.2	3986.4	4177.5	4491.0	5137.5	4569.6
32.5°	4738.9	4756.4	4677.7	4543.4	4298.7	4014.8	4023.5	4184.1	4488.8	5267.5	4606.7
35°	5076.4	5096.0	5055.6	4942.0	4670.1	4288.9	4165.5	4290.0	4559.8	5466.3	4706.1
37.5°	5453.2	5483.7	5494.7	5386.5	5096.0	4650.4	4398.1	4491.0	4720.3	5742.6	4888.5
40°	5996.0	6038.6	6035.3	5880.2	5584.2	5138.6	4757.4	4781.5	4970.4	6111.7	5180.1
42.5°	7035.7	7044.4	6772.5	6435.0	6121.6	5651.9	5181.2	5161.5	5315.5	6579.2	5609.3
45°	8358.3	8322.3	7717.2	7065.2	6682.9	6241.7	5732.7	5636.6	5753.5	7149.3	6146.7
47.5°	9455.9	9372.9	8608.4	7708.5	7277.1	6882.8	6380.4	6212.2	6276.6	7795.8	6841.3
50°	9837.1	9774.8	9141.4	8243.6	7839.5	7664.8	7177.7	6939.6	6957.1	8566.9	7654.9
52.5°	9755.2	9746.4	9323.8	8596.4	8365.9	8486.1	8307.0	7984.8	7814.4	9423.2	8533.0
55°	9561.9	9580.4	9427.5	9007.0	8967.7	9279.0	9782.5	9544.4	9014.7	10287.1	9440.6
57.5°	8890.2	8938.2	9274.6	9523.6	9936.5	10399.5	10970.7	10903.0	10306.7	11220.8	10519.7
60°	7162.4	7273.8	8175.9	9423.2	10933.6	12381.8	12637.4	12480.1	11639.1	12379.6	11944.9
62.5°	5018.5	5134.2	6206.7	8158.4	10769.8	14620.7	15616.8	14938.6	13552.6	14086.7	13789.6
65°	2686.7	2742.4	3561.5	5660.7	9092.2	15082.7	19971.2	18939.1	16582.3	16191.3	15367.8
67.5°	1482.1	1512.6	1826.1	2858.2	5823.4	13281.8	22745.3	23525.1	20368.8	17592.5	15080.5
69°	1340.1	1368.5	1573.8	2164.7	3896.8	10981.7	22474.5	24734.1	22028.9	17453.8	14019.0
70°	1310.6	1336.8	1521.4	1995.4	3154.2	9051.8	21566.9	24425.1	22424.2	16956.9	13092.8
72.5°	1179.5	1207.9	1387.0	1792.2	2695.4	4512.8	17083.6	20651.6	20358.9	14702.7	9931.0
75°	1099.8	1126.0	1429.6	1755.1	2580.8	2856.0	11262.3	15220.3	14965.9	10284.9	5354.9
77.5°	470.7	468.5	662.9	1485.3	2619.0	2765.3	6051.7	9508.3	8675.0	4395.9	1537.8
80°	314.5	309.1	314.5	436.9	2401.7	2780.6	3170.5	4826.3	3645.6	1120.6	758.0
82.5°	270.9	266.5	276.3	266.5	844.2	3173.8	2695.4	2566.6	1733.3	636.7	375.7
85°	182.4	174.7	238.1	239.2	398.6	2820.0	3036.2	2167.9	1402.3	377.9	185.7
87.5°	87.4	85.2	138.7	169.3	233.7	1145.7	3406.4	2221.5	1414.3	193.3	88.5
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: P299966

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL3-7030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5761.1	5761.1	5761.1	5761.1	5761.1	5761.1	5761.1	5761.1	5761.1	5761.1	5761.1
2.5°	5705.4	5660.7	5617.0	5564.6	5509.9	5448.8	5418.2	5387.6	5380.0	5371.2	5340.7
5°	5548.2	5484.8	5375.6	5255.5	5128.8	5005.4	4911.4	4852.5	4807.7	4784.8	4744.3
7.5°	5345.0	5252.2	5061.1	4853.6	4640.6	4446.2	4278.0	4172.0	4071.6	4024.6	3971.1
10°	5151.7	5013.0	4715.9	4410.1	4104.3	3810.5	3534.2	3338.7	3165.1	3067.9	2999.1
12.5°	4985.7	4795.7	4383.9	3970.0	3550.6	3132.3	2718.4	2392.9	2121.0	1977.9	1904.7
15°	4824.1	4594.7	4068.3	3543.0	3004.5	2435.5	1891.6	1522.5	1297.5	1207.9	1177.3
17.5°	4677.7	4383.9	3751.6	3112.7	2441.0	1752.9	1271.3	1068.1	981.9	952.4	942.5
20°	4519.4	4171.0	3422.8	2662.7	1853.4	1225.4	992.8	903.2	868.3	859.5	855.2
22.5°	4366.5	3961.3	3108.3	2181.0	1331.3	945.8	853.0	815.8	810.4	818.0	818.0
25°	4236.5	3773.4	2768.6	1677.6	977.5	796.2	763.4	754.7	775.4	803.8	809.3
27.5°	4139.3	3619.4	2407.1	1238.5	778.7	692.4	691.3	705.5	756.9	811.5	822.4
30°	4072.7	3473.1	2020.5	893.4	653.1	609.4	626.9	657.5	732.8	810.4	831.1
32.5°	4038.8	3364.9	1617.5	691.3	559.2	535.2	564.6	601.8	676.0	748.1	775.4
35°	4065.0	3285.2	1237.4	576.7	493.7	475.1	505.7	541.7	585.4	616.0	636.7
37.5°	4163.3	3253.5	933.8	516.6	448.9	431.4	455.4	476.2	493.7	502.4	512.2
40°	4375.2	3287.4	748.1	486.0	423.8	401.9	411.7	419.4	430.3	439.0	443.4
42.5°	4687.5	3389.0	670.6	474.0	410.7	379.0	376.8	380.1	394.3	410.7	413.9
45°	5124.4	3568.1	665.1	481.6	404.1	360.4	350.6	355.0	376.8	401.9	406.3
47.5°	5682.5	3841.1	708.8	504.6	409.6	350.6	334.2	339.7	367.0	400.8	406.3
50°	6358.6	4222.3	782.0	538.4	433.6	352.8	328.7	332.0	360.4	397.5	403.0
52.5°	7156.9	4762.9	861.7	571.2	458.7	367.0	333.1	325.5	351.7	384.4	391.0
55°	8044.8	5456.4	943.6	600.7	471.8	384.4	341.8	316.7	335.3	362.6	368.1
57.5°	9134.8	6426.3	1085.6	629.1	480.6	396.5	350.6	308.0	314.5	334.2	338.6
60°	10610.3	7798.0	1335.7	676.0	500.2	400.8	349.5	300.3	293.8	304.7	306.9
62.5°	12378.5	9287.7	1544.3	735.0	533.0	404.1	342.9	294.9	276.3	276.3	278.5
65°	13428.1	9686.4	1428.5	784.2	560.3	400.8	335.3	289.4	263.2	251.2	252.3
67.5°	12538.0	8518.8	1224.3	794.0	559.2	385.5	323.3	279.6	250.1	231.5	230.4
69°	11422.9	7350.2	1132.6	767.8	533.0	365.9	308.0	268.7	240.3	220.6	219.5
70°	10524.0	6637.1	1072.5	739.4	504.6	351.7	296.0	258.8	232.6	214.1	211.9
72.5°	7651.7	4349.0	916.3	635.6	416.1	294.9	255.6	227.2	207.5	196.6	194.4
75°	3823.7	2074.0	743.8	515.5	318.9	235.9	209.7	190.0	180.2	178.0	176.9
77.5°	1256.0	950.2	531.9	384.4	237.0	184.6	169.3	155.1	152.9	159.5	157.3
80°	690.2	552.6	337.5	254.5	161.6	135.4	133.2	125.6	128.9	139.8	137.6
82.5°	351.7	287.2	208.6	152.9	109.2	97.2	105.9	101.6	105.9	115.8	114.7
85°	173.7	157.3	132.2	92.8	72.1	62.3	75.4	78.6	80.8	88.5	88.5
87.5°	100.5	92.8	69.9	43.7	36.0	32.8	43.7	42.6	50.2	54.6	53.5
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)