

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: P269326

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL4-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26942.6 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 320
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

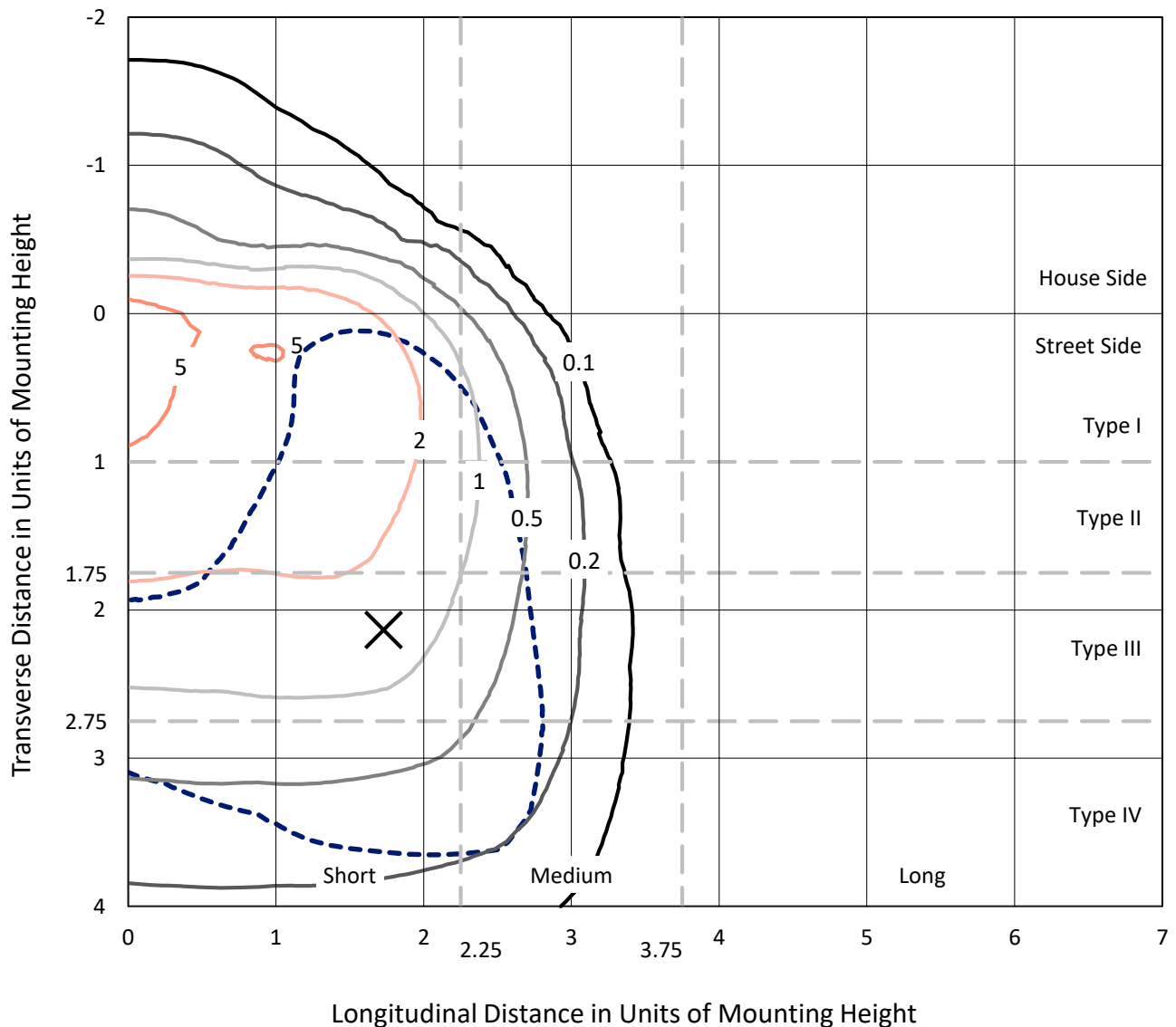


REPORT NUMBER: P269326

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

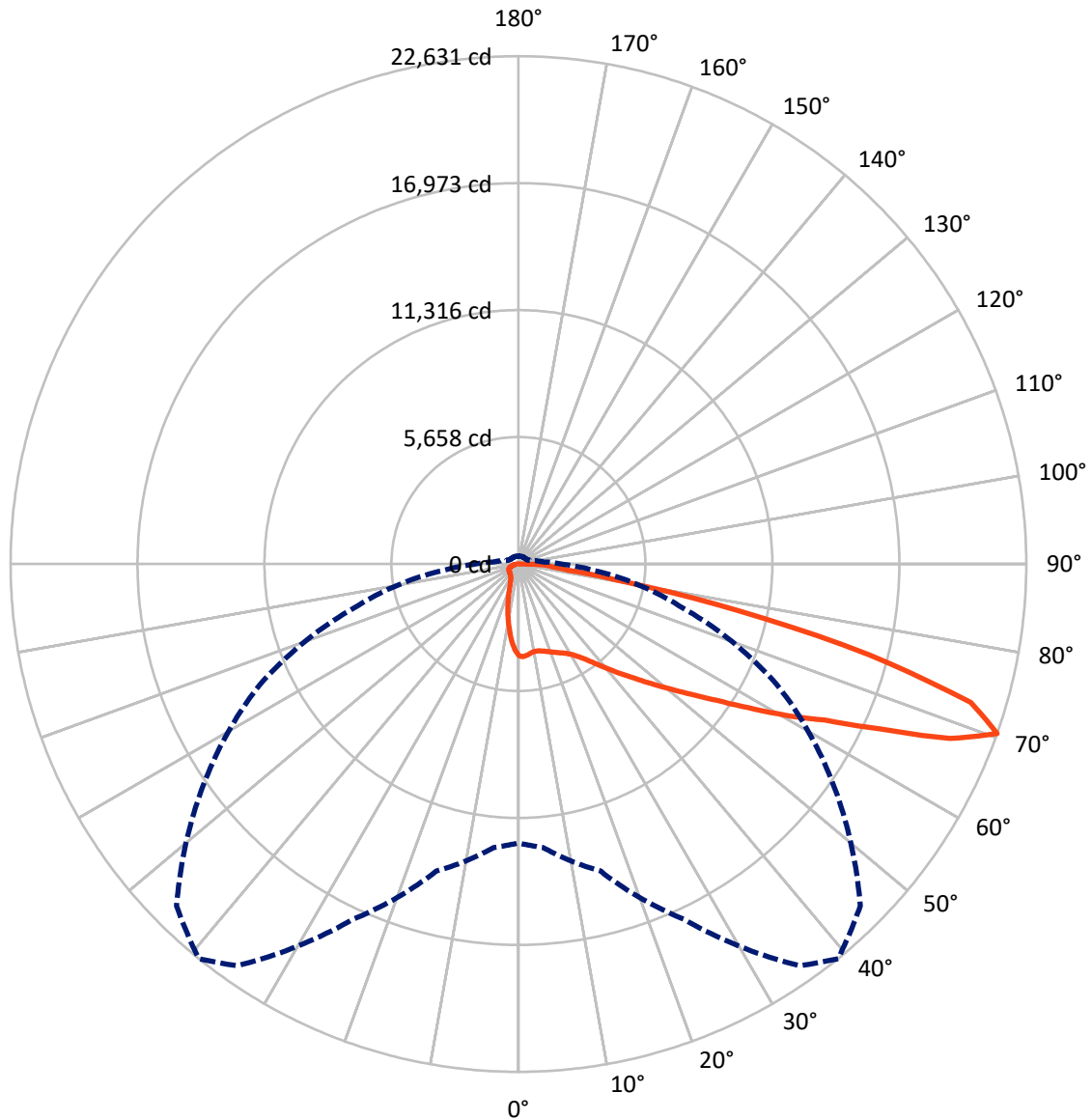


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P269326

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P269326

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3064.3	0.0	3064.3
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	23878.4	0.0	23878.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	26942.6	0.0	26942.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.0	1.3
10°-20°	877.4	3.3
20°-30°	1366.2	5.1
30°-40°	2128.3	7.9
40°-50°	3573.0	13.3
50°-60°	5676.0	21.1
60°-70°	7571.2	28.1
70°-80°	4572.0	17.0
80°-90°	827.5	3.1
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°	26942.6	100.0
0°-180°	26942.6	100.0



REPORT NUMBER: P269326

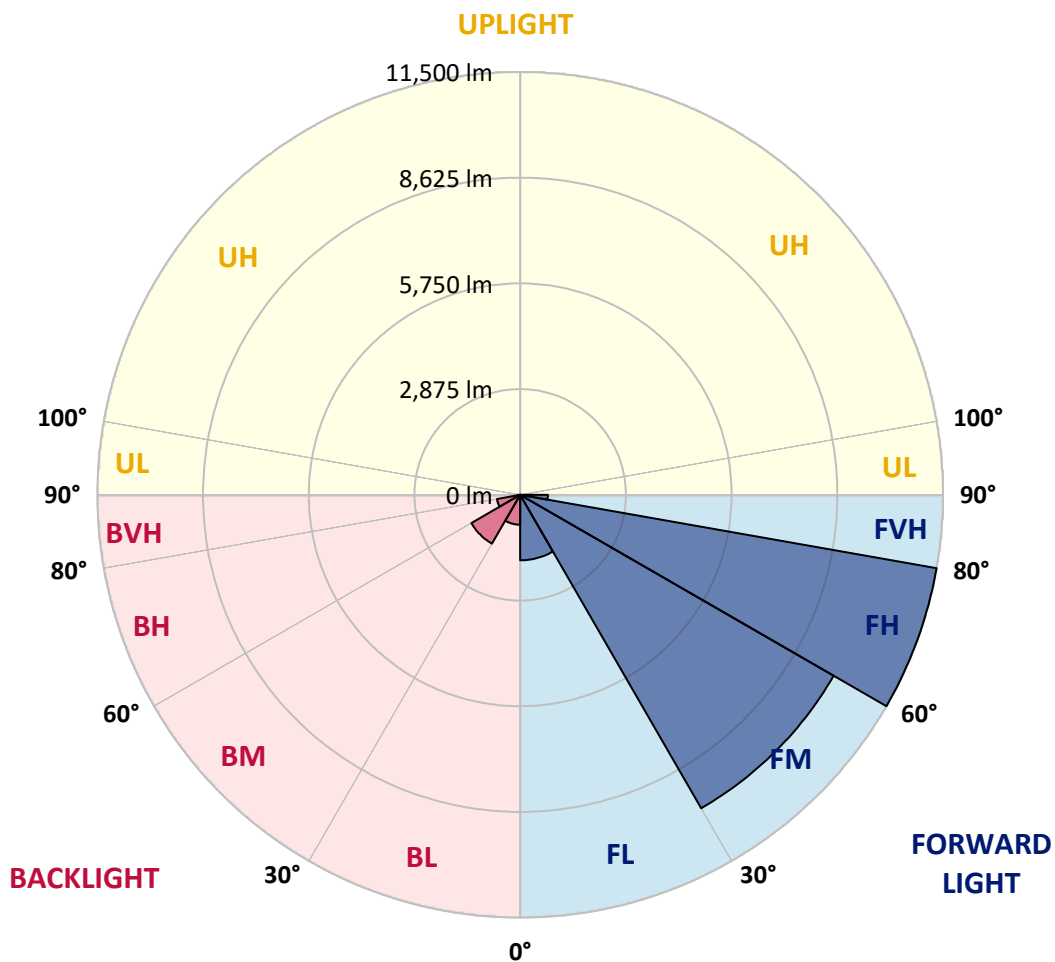
CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1781.7	6.6			
FM	(30°-60°)	9843.8	36.5			
FH	(60°-80°)	11499.9	42.7			G4/12000
FVH	(80°-90°)	752.9	2.8			G5
BL	(0°-30°)	812.9	3.0	B2/1000		
BM	(30°-60°)	1533.5	5.7	B2/2500		
BH	(60°-80°)	643.3	2.4	B2/1000		G2/1000
BVH	(80°-90°)	74.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





REPORT NUMBER: P269326

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4090.3	4090.3	4090.3	4090.3	4090.3	4090.3	4090.3	4090.3	4090.3	4090.3	4090.3
2.5°	4169.8	4168.3	4157.4	4149.2	4142.4	4139.6	4145.0	4124.6	4106.7	4084.9	4061.5
5°	4138.2	4136.9	4119.1	4102.6	4086.2	4080.7	4079.4	4042.4	4020.5	3987.5	3943.6
7.5°	4103.9	4097.2	4073.9	4046.4	4017.7	4004.0	3990.4	3942.4	3917.7	3884.8	3834.1
10°	4068.5	4060.2	4038.3	4010.8	3983.4	3963.0	3939.6	3893.1	3867.1	3842.4	3783.5
12.5°	4031.5	4024.5	4019.0	4006.8	3987.5	3969.8	3952.0	3912.2	3884.8	3856.1	3787.6
15°	4025.9	4023.1	4035.5	4043.7	4032.9	4021.8	4002.7	3968.4	3939.6	3911.0	3821.7
17.5°	4069.9	4068.5	4100.0	4121.9	4116.4	4097.2	4071.1	4032.9	4009.4	3984.8	3873.9
20°	4165.6	4172.4	4210.9	4239.6	4212.2	4184.8	4142.4	4088.9	4076.6	4065.6	3927.3
22.5°	4346.4	4353.4	4380.8	4391.6	4320.5	4280.8	4221.9	4153.4	4145.0	4153.4	3991.7
25°	4628.6	4621.8	4617.6	4576.7	4446.5	4384.8	4309.4	4238.3	4242.3	4279.3	4082.1
27.5°	5002.7	4965.7	4908.1	4784.8	4577.9	4509.5	4417.8	4352.0	4378.0	4449.2	4217.7
30°	5390.3	5349.1	5216.3	5015.0	4750.5	4675.1	4572.6	4498.5	4567.1	4679.4	4398.6
32.5°	5749.2	5743.8	5549.2	5290.3	4988.9	4923.3	4820.5	4736.9	4847.9	5019.1	4669.7
35°	6141.0	6153.3	5920.4	5609.5	5310.8	5242.4	5168.4	5105.3	5253.3	5489.0	5062.8
37.5°	6560.1	6584.8	6309.4	5958.7	5677.9	5649.3	5605.3	5577.9	5806.7	6132.6	5612.3
40°	7120.3	7095.7	6713.6	6353.3	6128.6	6127.2	6113.5	6146.5	6527.3	6973.8	6317.7
42.5°	7720.4	7647.8	7142.3	6776.5	6623.2	6669.6	6697.1	6831.3	7394.4	7995.8	7177.8
45°	8367.0	8204.0	7587.4	7224.4	7172.4	7271.1	7364.2	7656.0	8414.9	9158.7	8120.4
47.5°	8883.3	8725.9	8047.7	7694.3	7808.1	7957.4	8136.8	8598.4	9557.2	10360.1	9050.5
50°	9290.2	9187.4	8512.1	8242.3	8507.9	8738.2	9031.3	9665.6	10746.3	11529.8	9912.1
52.5°	9684.6	9608.0	8980.5	8803.8	9329.8	9647.6	10046.4	10810.7	11965.5	12680.6	10636.7
55°	10040.9	9986.1	9484.8	9503.9	10297.0	10710.8	11212.0	12114.8	13294.1	13706.5	11250.5
57.5°	10442.2	10372.4	10059.9	10381.9	11539.4	12076.5	12728.4	13580.4	14540.8	14618.7	11717.5
60°	10846.3	10785.9	10698.4	11395.5	13117.5	13681.8	14299.7	15000.9	15805.0	15327.1	11690.2
62.5°	11197.1	11203.8	11358.6	12460.0	14662.7	15316.0	16069.5	16762.6	16949.0	15450.3	10825.7
65°	11791.5	11899.7	12361.3	13966.8	16837.9	17711.9	18636.5	18525.6	17265.3	14298.3	8972.5
67.5°	12498.3	12688.6	13624.4	15975.0	19587.3	20747.4	21105.0	18924.2	15998.3	11623.0	6395.8
70°	12427.2	12688.6	14169.5	17472.2	21852.9	22631.0	21546.0	17126.9	12703.8	7593.0	3397.2
72.5°	11035.4	11409.4	13058.7	16785.9	21139.3	21070.7	18705.0	12768.1	7547.7	3049.2	1327.3
75°	8410.7	8788.8	10208.0	13261.3	16707.8	16132.5	13272.3	7053.2	2864.3	1210.9	837.0
77.5°	4838.2	5131.4	6227.2	8132.6	10599.7	10009.4	7387.5	3136.9	1394.4	843.8	653.3
80°	2701.4	2864.3	3530.1	4125.9	5194.4	4761.6	3305.5	1949.2	1041.0	612.4	504.0
82.5°	2135.6	2280.7	2854.8	2602.7	2372.6	2189.0	1898.6	1735.5	831.6	386.4	301.3
85°	1865.7	2004.1	2416.4	2049.3	1620.5	1486.2	1542.4	1708.1	646.6	232.9	257.5
87.5°	1728.7	1913.7	2153.3	1579.4	1261.6	1117.9	1423.3	1872.5	208.1	145.2	104.2
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: P269326

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7027-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4090.3	4090.3	4090.3	4090.3	4090.3	4090.3	4090.3	4090.3	4090.3	4090.3	4090.3
2.5°	4040.9	4019.0	3983.4	3952.0	3902.6	3876.6	3847.9	3827.3	3810.9	3797.1	3819.1
5°	3916.3	3875.3	3799.9	3719.2	3623.3	3547.9	3484.9	3426.0	3384.9	3357.4	3376.5
7.5°	3798.6	3731.4	3613.6	3467.1	3302.7	3162.9	3047.9	2946.5	2876.6	2831.5	2849.2
10°	3731.4	3647.8	3465.8	3235.5	2993.2	2775.3	2594.5	2438.3	2330.1	2268.4	2278.0
12.5°	3715.0	3606.8	3354.7	3038.2	2706.9	2404.0	2149.3	1932.9	1780.8	1701.3	1704.1
15°	3727.2	3589.0	3250.5	2849.2	2430.1	2047.9	1730.0	1467.1	1290.3	1200.0	1198.6
17.5°	3747.9	3575.3	3141.1	2645.1	2149.3	1705.4	1350.6	1093.1	936.9	864.3	858.9
20°	3769.7	3553.3	3017.8	2424.5	1857.4	1387.6	1057.6	856.2	757.5	717.7	715.1
22.5°	3801.3	3534.1	2890.3	2191.8	1571.1	1130.1	869.9	734.3	682.2	661.6	658.8
25°	3851.9	3524.6	2754.7	1949.2	1313.7	945.1	757.5	674.0	643.8	630.2	628.8
27.5°	3936.9	3538.2	2627.4	1713.6	1104.0	820.5	694.5	643.8	621.8	609.6	608.2
30°	4046.4	3580.7	2493.1	1490.4	941.1	735.6	656.1	623.2	605.5	593.2	593.2
32.5°	4228.7	3652.0	2352.0	1297.2	824.6	676.8	627.3	605.5	590.4	580.8	579.4
35°	4497.2	3786.1	2220.5	1137.0	741.1	634.3	602.8	586.2	575.4	569.9	569.9
37.5°	4887.6	3998.5	2104.1	1021.9	690.3	605.5	579.4	567.1	560.3	560.3	560.3
40°	5412.2	4291.7	2009.6	945.1	661.6	584.9	561.6	552.1	548.0	549.4	549.4
42.5°	6060.1	4672.4	1946.5	891.7	647.9	572.6	549.4	541.0	536.9	535.6	536.9
45°	6798.5	5105.3	1939.7	852.0	634.3	564.3	541.0	532.9	524.6	519.2	519.2
47.5°	7516.3	5545.1	1995.9	838.4	619.1	554.8	534.2	526.0	513.7	501.3	501.3
50°	8150.5	5919.0	2071.2	843.8	613.7	541.0	523.3	519.2	499.9	486.3	484.9
52.5°	8654.6	6206.7	2132.8	860.2	619.1	531.4	509.6	511.0	490.5	475.4	473.9
55°	9058.7	6395.8	2116.3	876.7	631.5	526.0	497.2	499.9	483.6	468.5	468.5
57.5°	9235.4	6325.9	1934.2	863.0	641.1	527.3	487.7	498.6	484.9	471.3	471.3
60°	8855.9	5705.3	1593.1	802.7	628.8	523.3	483.6	504.0	502.7	489.0	487.7
62.5°	7708.0	4594.4	1235.6	713.7	586.2	502.7	472.6	502.7	517.9	513.7	512.4
65°	5940.9	3272.5	943.8	617.8	528.7	468.5	443.9	471.3	491.7	497.2	495.9
67.5°	3856.1	2005.5	727.4	527.3	464.3	428.8	406.8	419.1	423.3	423.3	420.5
70°	1895.9	1079.5	579.4	443.9	398.6	386.4	374.0	367.0	360.3	354.8	354.8
72.5°	935.6	705.4	476.7	375.3	343.8	338.3	335.5	327.4	322.0	315.0	312.3
75°	691.8	573.9	405.5	316.5	295.9	290.4	295.9	289.1	287.6	282.2	279.5
77.5°	568.4	489.0	349.4	271.2	253.4	243.8	252.1	253.4	254.8	246.6	243.8
80°	461.5	413.7	291.8	224.7	208.1	201.4	206.8	217.7	220.5	208.1	202.7
82.5°	332.8	338.3	235.6	175.3	161.7	156.1	167.2	180.7	183.6	165.7	161.7
85°	279.5	282.2	180.7	124.7	110.9	102.8	120.6	134.2	143.8	126.0	121.9
87.5°	116.4	165.7	104.2	69.9	61.7	53.4	64.4	71.2	86.2	79.4	78.2
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)