

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: P269230

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269230
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: GLEON-AF-04-LED-E1-SL2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 22419 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

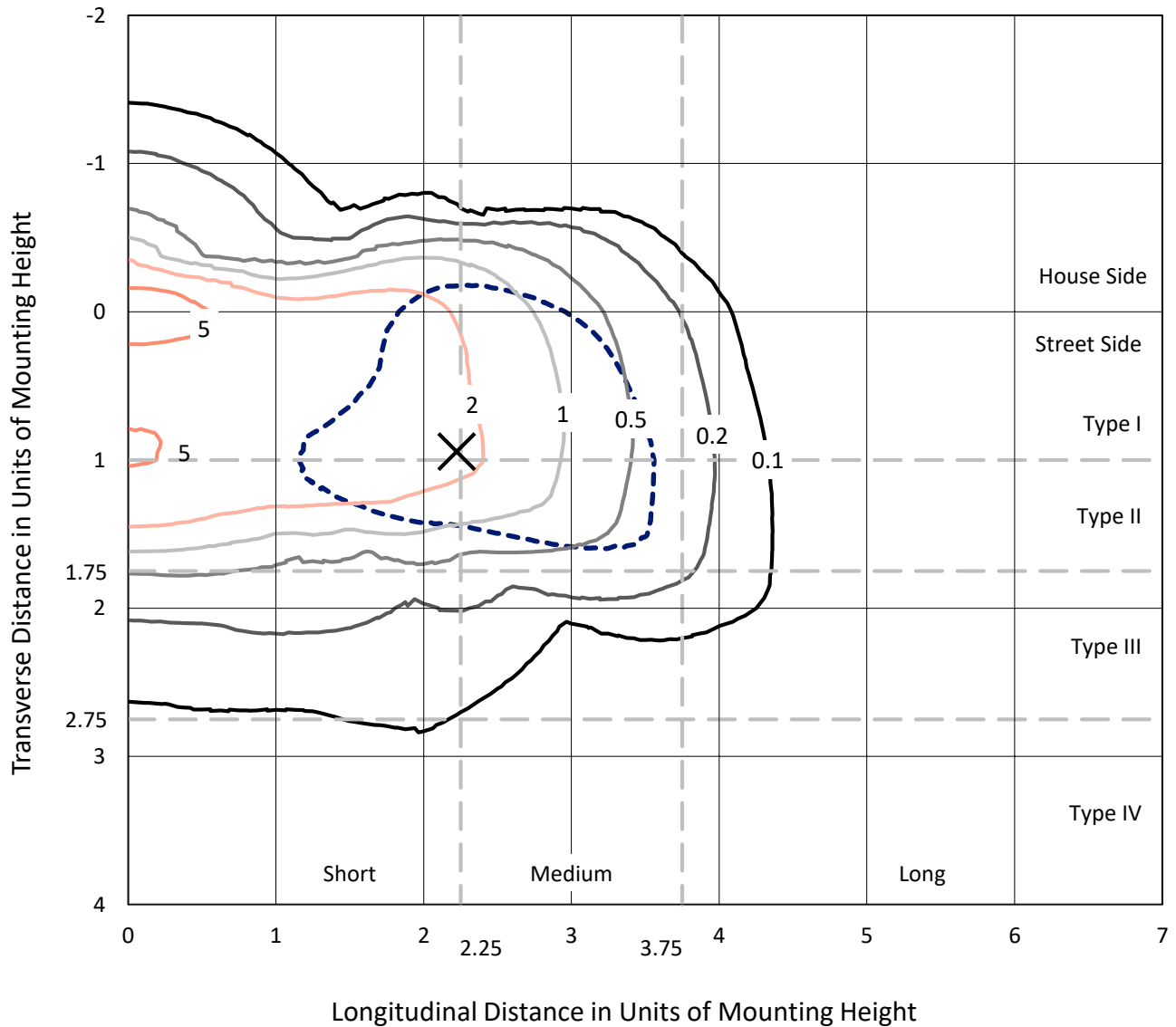


REPORT NUMBER: P269230

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

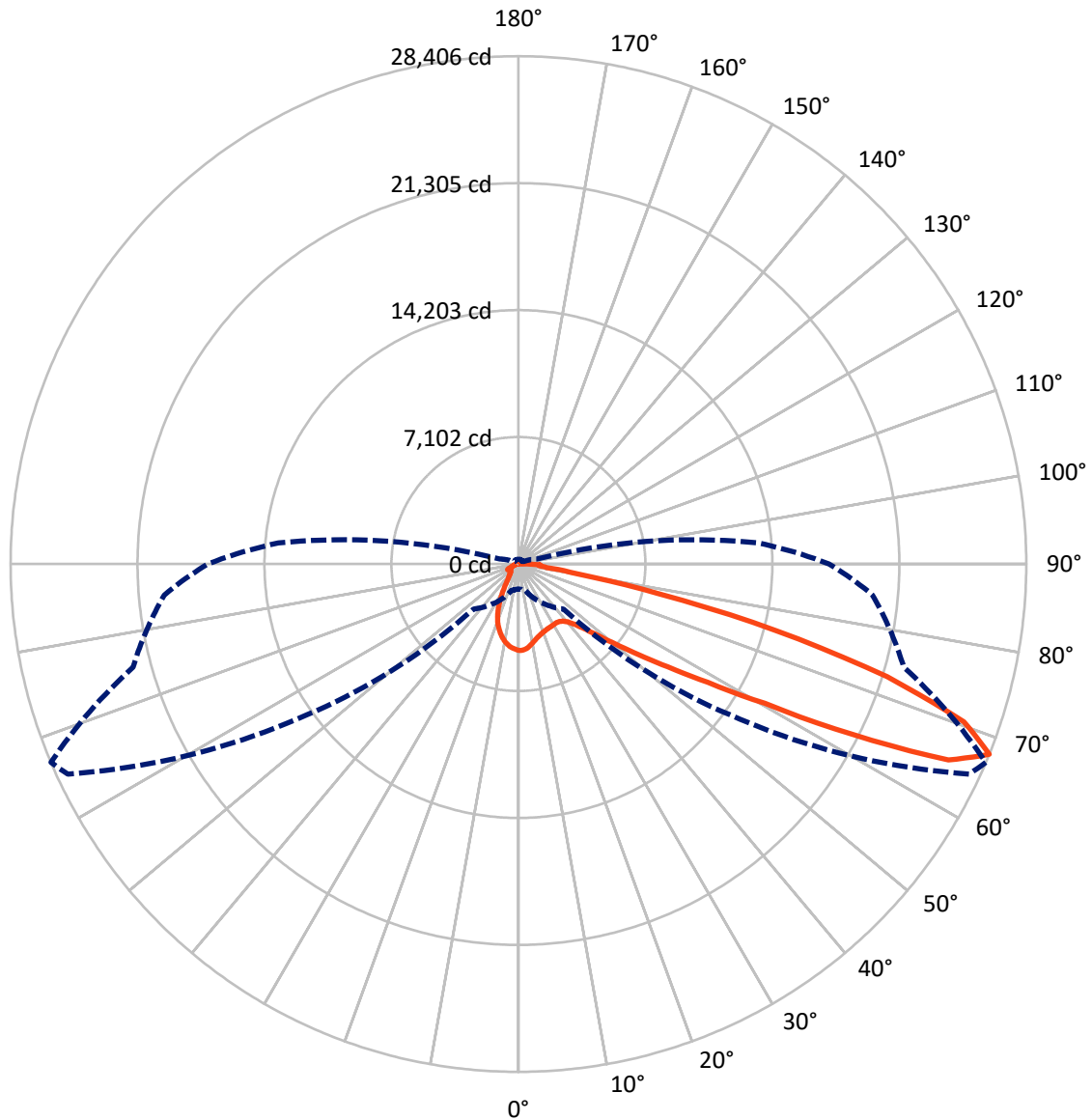


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P269230

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269230

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3714.6	0.0	3714.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	18704.4	0.0	18704.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	22419.0	0.0	22419.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.6	1.8
10°-20°	954.6	4.3
20°-30°	1294.0	5.8
30°-40°	1839.5	8.2
40°-50°	3077.6	13.7
50°-60°	4868.7	21.7
60°-70°	6202.3	27.7
70°-80°	3248.7	14.5
80°-90°	521.0	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°	22419.0	100.0
0°-180°	22419.0	100.0



REPORT NUMBER: P269230

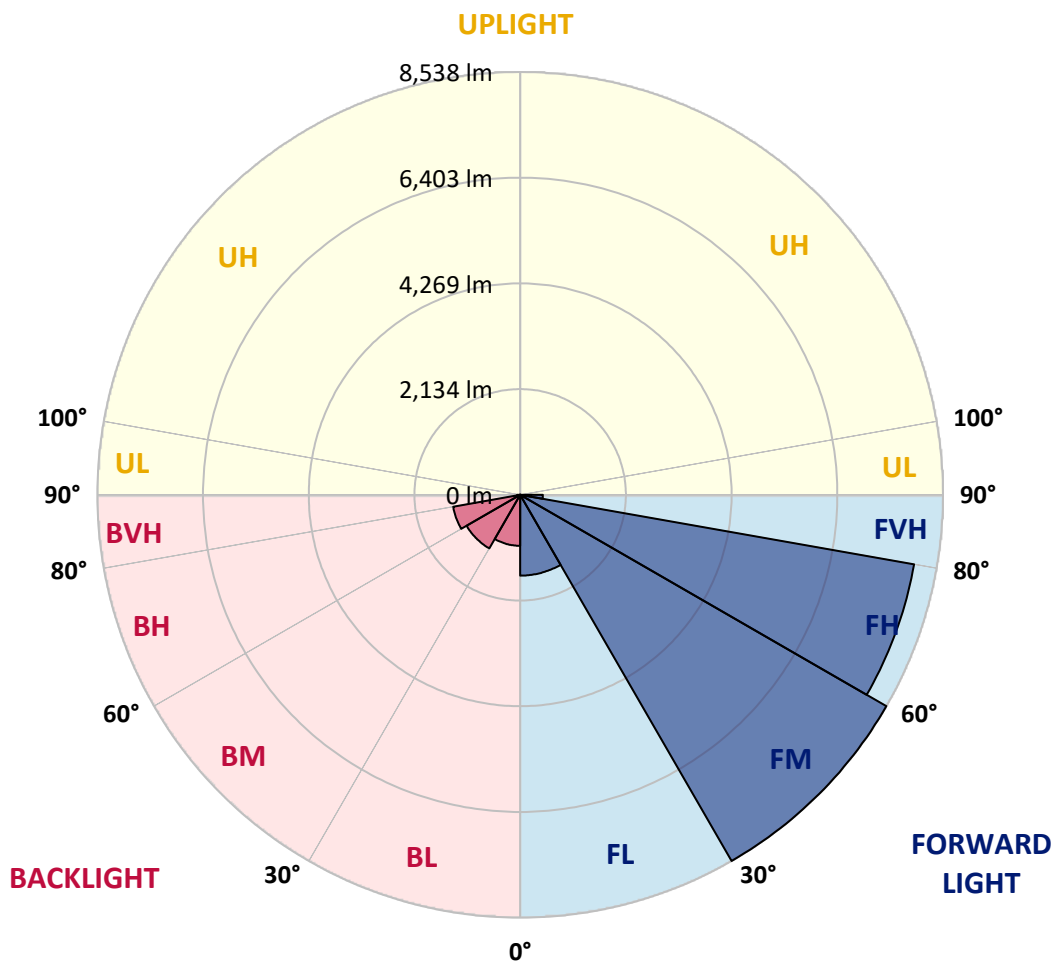
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1631.6	7.3			
FM (30°-60°)	8537.6	38.1			
FH (60°-80°)	8077.1	36.0			G4/12000
FVH (80°-90°)	458.1	2.0			G3/500
BL (0°-30°)	1029.6	4.6	B3/2500		
BM (30°-60°)	1248.2	5.6	B2/2500		
BH (60°-80°)	1373.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	62.9	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-G4

Type II Short





REPORT NUMBER: P269230

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4835.8	4835.8	4835.8	4835.8	4835.8	4835.8	4835.8	4835.8	4835.8	4835.8	4835.8
2.5°	4636.7	4644.4	4668.9	4684.2	4753.9	4783.7	4804.8	4825.8	4829.1	4839.0	4829.1
5°	4150.3	4166.9	4212.2	4263.0	4397.9	4504.0	4615.8	4731.8	4752.8	4828.0	4849.1
7.5°	3773.3	3768.8	3806.5	3867.3	4005.5	4152.4	4348.2	4579.2	4624.6	4793.7	4875.6
10°	3498.0	3494.6	3534.6	3597.5	3729.0	3868.3	4089.4	4405.6	4469.7	4739.5	4901.0
12.5°	3294.5	3295.7	3335.4	3405.1	3539.0	3679.3	3903.8	4237.7	4319.4	4676.5	4927.6
15°	3159.7	3168.5	3200.7	3274.7	3405.1	3545.5	3765.5	4111.6	4203.3	4626.8	4957.3
17.5°	3114.3	3128.7	3139.8	3194.0	3305.7	3446.1	3661.6	4018.7	4116.0	4592.6	4983.8
20°	3156.4	3173.0	3152.0	3170.7	3241.5	3365.3	3579.7	3945.7	4045.2	4553.8	4987.2
22.5°	3336.6	3352.0	3290.1	3236.0	3231.6	3306.8	3512.4	3888.3	3991.1	4525.0	4988.3
25°	3653.9	3663.8	3560.0	3434.0	3311.2	3285.7	3464.9	3848.5	3957.9	4499.6	4967.3
27.5°	4043.0	4050.7	3931.4	3745.7	3499.1	3335.4	3448.2	3825.3	3939.1	4477.5	4932.0
30°	4516.1	4552.7	4392.4	4158.1	3798.8	3482.5	3481.4	3813.0	3918.0	4440.0	4862.3
32.5°	5000.4	5016.0	4905.4	4667.7	4202.2	3741.3	3574.3	3821.8	3912.6	4394.6	4773.9
35°	5491.2	5511.2	5439.3	5248.1	4753.9	4120.4	3755.6	3873.9	3946.9	4379.1	4711.9
37.5°	6127.0	6153.6	6054.0	5833.0	5425.0	4634.5	4057.5	4004.4	4051.9	4423.3	4693.1
40°	7132.0	7119.7	6829.1	6499.5	6159.0	5292.4	4488.7	4225.4	4253.0	4565.9	4750.5
42.5°	8301.6	8271.9	7771.0	7253.5	6966.1	6088.4	5059.1	4609.1	4603.5	4846.7	4953.0
45°	9234.8	9210.4	8759.4	8121.4	7891.5	6994.9	5796.5	5180.6	5139.7	5292.4	5326.6
47.5°	9740.1	9741.1	9481.3	8960.6	8955.1	8146.9	6743.9	6007.7	5936.9	6008.8	5972.2
50°	9563.0	9586.4	9558.7	9392.9	9925.7	9657.0	7981.0	7160.7	7018.1	7088.9	6948.5
52.5°	8707.5	8737.3	8900.9	9155.2	10333.7	11482.3	9798.6	8593.5	8427.7	8402.2	8246.4
55°	7190.6	7227.0	7560.9	8251.9	9994.3	12708.4	12666.5	10419.9	10155.7	9915.9	9849.5
57.5°	4956.2	5017.0	5554.3	6580.4	8896.5	13078.9	16081.5	13023.4	12486.3	11648.2	11663.7
60°	2793.8	2864.5	3498.0	4430.0	6681.0	12676.3	18679.5	16967.0	15832.7	13676.9	13791.9
62.5°	1776.7	1852.9	2333.8	3078.0	4008.7	10509.5	19744.1	22449.5	21009.0	16177.7	16290.5
65°	1438.4	1471.6	1698.2	2540.5	2911.0	6331.6	18936.0	26965.7	26428.5	19351.7	18825.5
67.5°	1404.1	1415.1	1532.2	2132.7	2791.6	3558.7	15104.2	27810.4	28406.3	22315.8	19881.3
70°	1387.5	1426.1	1726.9	2035.3	2673.3	3001.5	9076.7	25495.3	26436.2	23090.8	18476.1
72.5°	673.3	671.0	869.0	1840.7	3011.6	3113.3	4663.2	20628.7	21572.7	20005.2	15182.7
75°	542.8	496.5	474.2	674.4	2895.4	3214.9	2971.8	14194.3	14877.5	13412.7	9333.1
77.5°	515.2	459.9	421.2	422.4	1223.9	3409.5	2517.4	7856.0	8055.1	6058.4	2557.1
80°	426.8	375.9	348.3	392.5	592.6	3247.1	2721.9	3555.5	3262.6	1488.1	851.2
82.5°	296.4	269.8	262.0	329.5	474.2	2313.9	3165.2	1910.4	1601.9	745.1	525.1
85°	189.1	161.4	179.1	239.8	369.3	1067.9	3260.3	1489.2	1184.1	473.1	296.4
87.5°	87.3	70.7	88.5	132.7	241.0	368.1	3102.1	1672.7	1219.4	249.9	186.8
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: P269230

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL2-7027-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4835.8	4835.8	4835.8	4835.8	4835.8	4835.8	4835.8	4835.8	4835.8	4835.8	4835.8
2.5°	4837.9	4816.9	4800.4	4769.5	4735.1	4702.0	4672.2	4634.5	4623.4	4613.5	4629.0
5°	4853.5	4832.4	4771.5	4676.5	4571.5	4473.1	4374.7	4290.7	4238.7	4209.9	4226.5
7.5°	4876.5	4846.7	4720.8	4546.1	4357.0	4184.6	4006.5	3863.9	3758.9	3709.1	3723.6
10°	4897.6	4840.2	4634.5	4372.5	4096.1	3839.6	3558.7	3326.7	3154.2	3063.5	3085.6
12.5°	4906.5	4814.7	4514.1	4155.7	3776.7	3400.8	2987.3	2640.1	2392.5	2301.7	2283.0
15°	4915.3	4786.0	4381.4	3909.2	3390.7	2858.9	2279.7	1864.0	1658.4	1612.9	1603.0
17.5°	4917.5	4736.3	4230.9	3641.6	2938.5	2214.4	1558.9	1294.5	1295.7	1368.7	1377.6
20°	4894.3	4662.2	4048.7	3308.9	2396.9	1531.3	1070.2	1024.8	1191.8	1374.1	1396.3
22.5°	4841.2	4563.7	3841.8	2920.8	1776.7	1008.3	828.1	877.9	1093.3	1316.7	1342.2
25°	4773.9	4444.4	3597.5	2470.9	1176.3	720.8	694.3	755.0	901.0	1050.3	1064.6
27.5°	4682.1	4302.8	3323.3	1955.7	764.0	593.7	611.3	652.3	711.9	778.3	784.9
30°	4563.7	4133.7	3030.3	1426.1	577.2	534.0	559.5	581.6	607.0	644.5	647.9
32.5°	4427.7	3971.1	2729.6	985.0	511.9	503.1	523.0	534.0	553.9	577.2	579.2
35°	4313.9	3816.4	2417.9	696.5	484.2	479.9	493.1	497.5	516.3	541.7	544.0
37.5°	4248.7	3690.3	2096.1	561.6	465.4	458.9	466.5	466.5	493.1	530.7	536.2
40°	4253.0	3620.7	1774.4	507.5	450.1	441.1	442.2	442.2	476.6	517.5	520.7
42.5°	4373.6	3638.3	1489.2	486.4	437.8	427.9	422.4	425.6	454.5	481.0	483.1
45°	4656.6	3763.3	1221.7	473.1	425.6	422.4	410.2	409.1	420.0	432.3	432.3
47.5°	5121.0	4009.9	1040.3	464.3	415.6	414.6	400.3	385.8	384.7	389.1	389.1
50°	5876.1	4434.5	918.7	454.5	409.1	400.3	383.7	361.5	353.8	357.0	357.0
52.5°	7008.1	5191.8	872.3	441.1	394.6	380.3	361.5	339.4	332.8	333.9	333.9
55°	8492.9	6354.8	865.6	425.6	379.3	356.0	340.5	323.8	316.3	318.4	318.4
57.5°	10307.2	7963.4	984.0	401.4	358.2	331.7	322.9	311.8	306.2	309.6	308.5
60°	12512.8	10068.4	1459.3	375.9	337.3	309.6	309.6	300.8	296.4	299.7	298.4
62.5°	15053.3	12486.3	2051.9	357.0	315.0	291.9	296.4	291.9	287.5	289.7	288.5
65°	17306.4	14061.6	1921.5	342.8	292.9	275.3	283.1	280.8	277.4	279.7	278.7
67.5°	17371.7	13477.9	1079.0	327.3	271.9	258.7	269.8	268.7	266.4	268.7	267.5
70°	15503.3	11380.6	608.1	298.4	249.9	238.8	254.3	253.2	250.9	255.4	254.3
72.5°	12421.0	8258.6	444.4	263.2	227.7	217.7	235.4	234.4	234.4	241.0	237.7
75°	7147.5	4249.8	354.9	225.6	204.5	196.8	212.3	213.3	215.7	224.4	217.7
77.5°	2037.5	1324.6	289.7	191.2	175.8	172.5	187.9	190.1	191.2	201.2	192.3
80°	757.4	610.3	238.8	160.3	143.6	144.8	159.2	162.6	163.6	173.6	162.6
82.5°	483.1	402.4	193.4	123.8	112.7	111.7	129.4	133.8	133.8	134.8	128.3
85°	281.9	241.0	146.0	89.6	79.6	76.3	96.2	103.9	100.6	98.5	94.0
87.5°	189.1	165.8	89.6	49.8	43.1	41.0	56.4	62.0	59.6	56.4	53.1
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)