

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: P269394

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269394
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: GLEON-AF-06-LED-E1-SL3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20380.5 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - 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

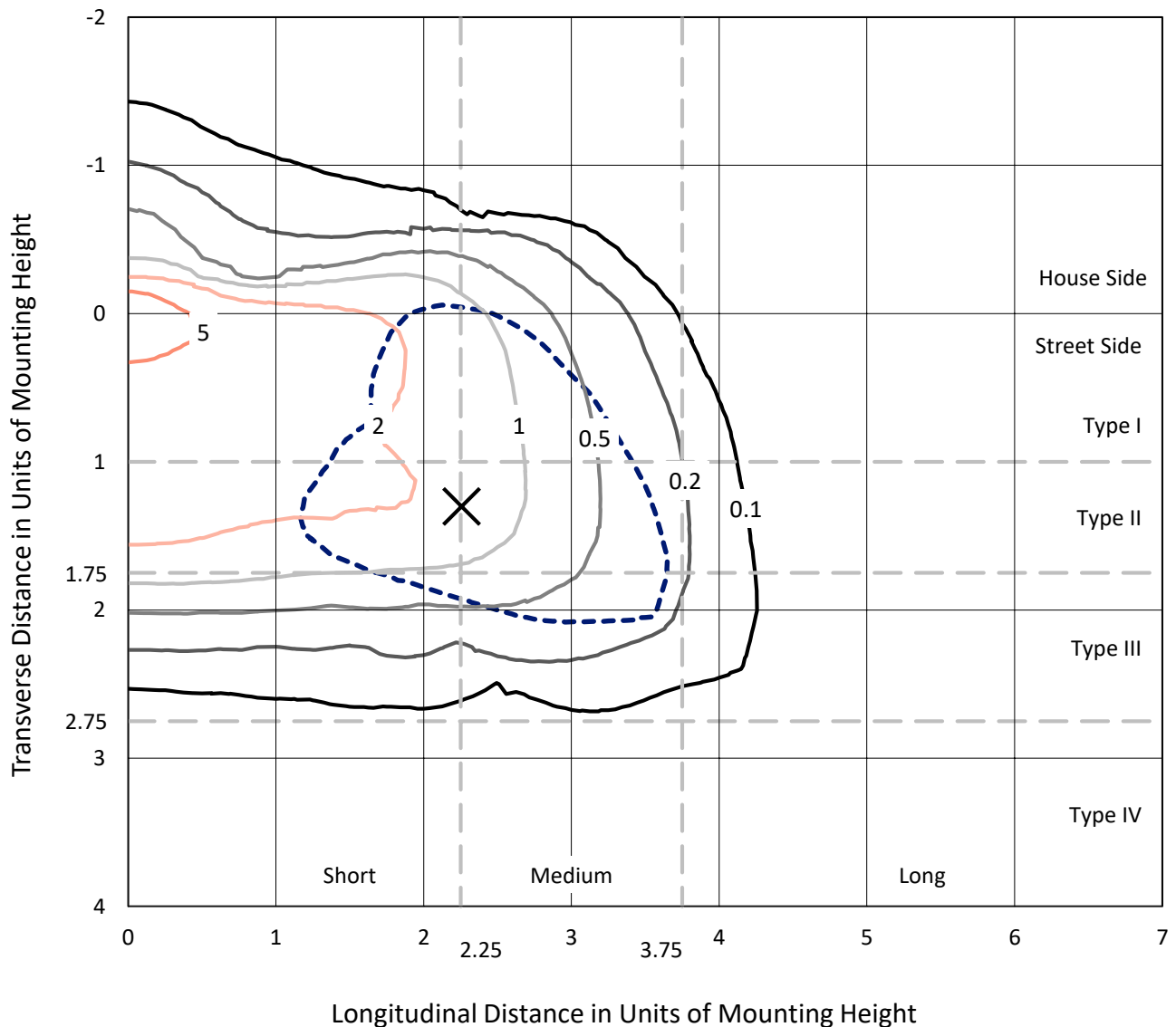


REPORT NUMBER: P269394

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027-600

Iso-Footcandle Lines of Horizontal Illumination

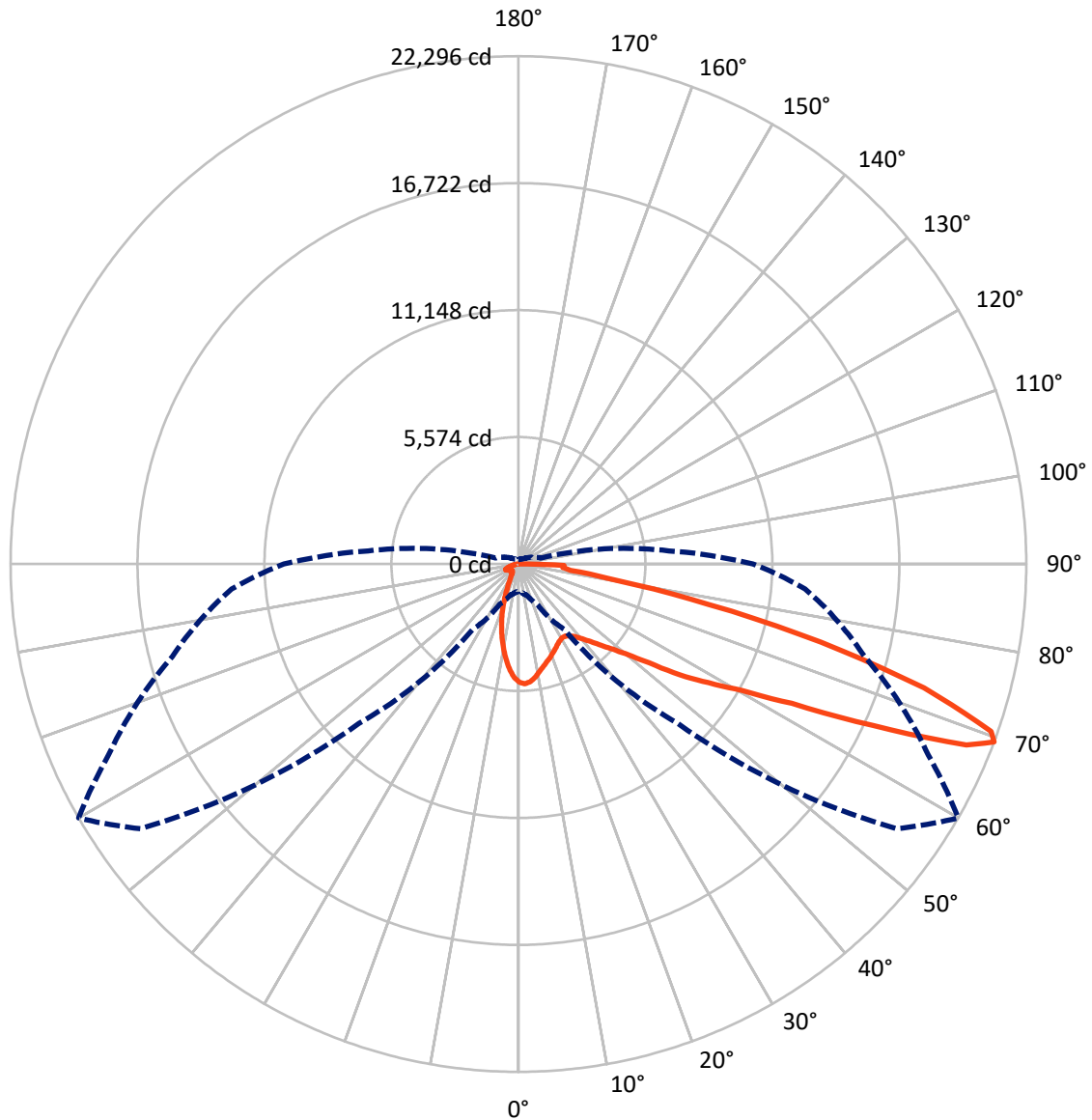
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P269394
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269394

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2899.5	0.0	2899.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	17481.0	0.0	17481.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	20380.5	0.0	20380.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.1	2.2
10°-20°	935.6	4.6
20°-30°	1192.1	5.8
30°-40°	1638.8	8.0
40°-50°	2659.1	13.0
50°-60°	4264.5	20.9
60°-70°	5675.7	27.8
70°-80°	3064.4	15.0
80°-90°	511.3	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°	20380.5	100.0
0°-180°	20380.5	100.0

Coefficient of Utilization



REPORT NUMBER: P269394

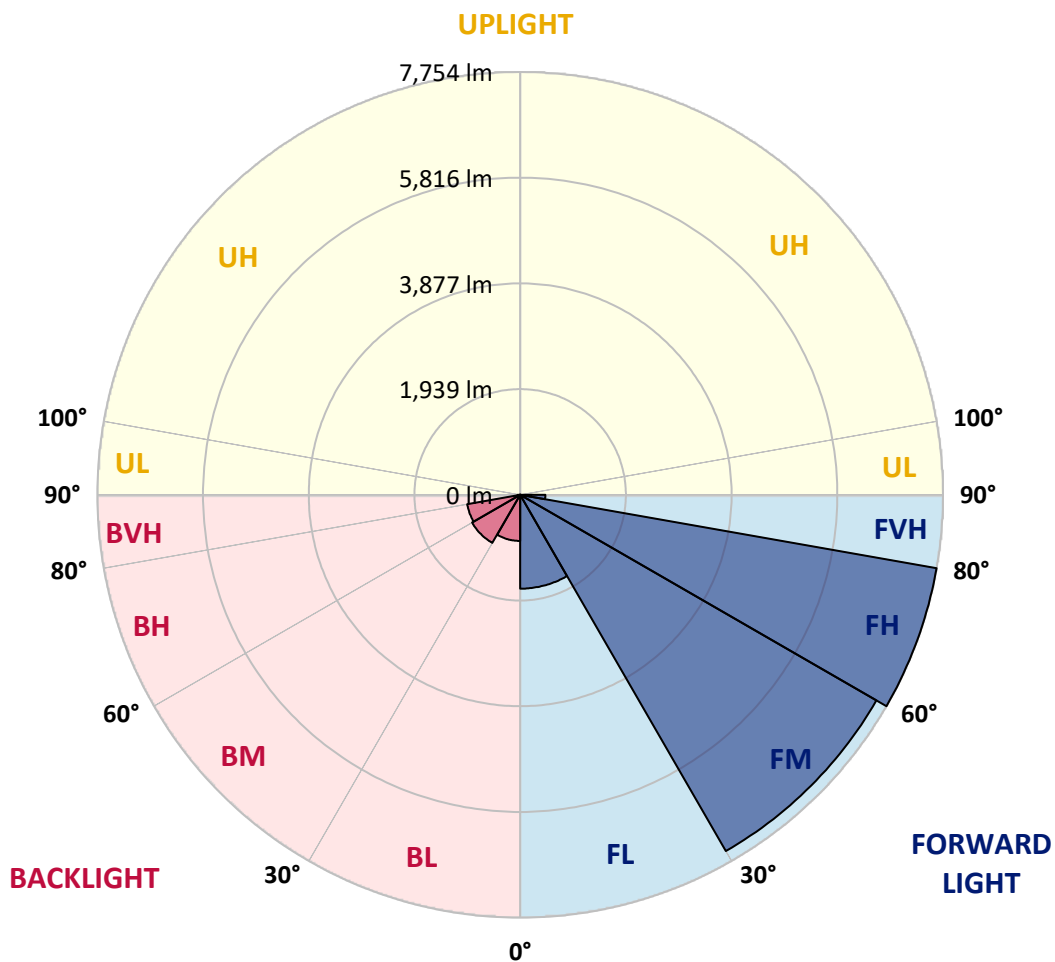
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1720.8	8.4			
FM	(30°-60°)	7543.7	37.0			
FH	(60°-80°)	7754.4	38.0			G4/12000
FVH	(80°-90°)	462.1	2.3			G3/500
BL	(0°-30°)	845.9	4.2	B2/1000		
BM	(30°-60°)	1018.6	5.0	B2/2500		
BH	(60°-80°)	985.7	4.8	B2/1000		G2/1000
BVH	(80°-90°)	49.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





REPORT NUMBER: P269394

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5193.2	5193.2	5193.2	5193.2	5193.2	5193.2	5193.2	5193.2	5193.2	5193.2	5193.2
2.5°	5299.6	5311.4	5306.5	5303.6	5312.3	5298.7	5270.0	5261.2	5247.4	5214.9	5159.8
5°	5100.7	5136.1	5134.3	5160.8	5205.0	5216.8	5204.2	5206.0	5180.4	5140.1	5048.6
7.5°	4757.2	4771.8	4779.7	4837.8	4918.6	4983.5	5038.8	5056.4	5044.6	5010.1	4892.0
10°	4402.8	4414.5	4433.2	4501.1	4603.5	4693.1	4797.5	4857.6	4883.1	4877.2	4745.2
12.5°	4098.4	4110.4	4134.9	4211.8	4333.9	4444.1	4595.6	4670.5	4731.6	4767.9	4626.2
15°	3825.8	3851.4	3875.0	3963.6	4100.5	4245.2	4416.4	4511.0	4605.5	4687.3	4520.8
17.5°	3613.2	3638.8	3652.5	3733.3	3878.9	4056.1	4257.0	4368.3	4486.3	4620.3	4416.4
20°	3490.1	3501.9	3495.9	3541.3	3672.2	3860.2	4098.4	4227.5	4370.3	4557.2	4312.1
22.5°	3455.6	3456.6	3434.8	3430.0	3514.7	3673.2	3929.1	4085.8	4260.9	4515.9	4222.6
25°	3539.3	3536.4	3477.2	3429.0	3437.9	3530.3	3765.8	3947.8	4169.4	4507.1	4153.7
27.5°	3725.4	3734.3	3646.6	3556.0	3466.4	3463.4	3641.6	3833.6	4094.6	4547.4	4124.1
30°	3986.3	4001.1	3907.4	3792.4	3623.9	3485.2	3593.4	3765.8	4048.3	4631.1	4119.2
32.5°	4271.8	4287.5	4216.6	4095.6	3875.0	3619.0	3626.8	3771.7	4046.3	4748.3	4152.7
35°	4576.0	4593.8	4557.2	4454.9	4209.7	3866.1	3754.8	3867.2	4110.4	4927.5	4242.2
37.5°	4915.6	4943.3	4953.1	4855.6	4593.8	4192.0	3964.6	4048.3	4255.0	5176.6	4406.6
40°	5404.9	5443.3	5440.3	5300.5	5033.7	4632.1	4288.5	4310.2	4480.4	5509.2	4669.5
42.5°	6342.2	6350.1	6104.9	5800.6	5518.2	5094.7	4670.5	4652.7	4791.6	5930.6	5056.4
45°	7534.4	7501.9	6956.6	6368.8	6024.2	5626.4	5167.7	5081.1	5186.4	6444.5	5540.7
47.5°	8523.8	8449.0	7759.9	6948.6	6559.8	6204.4	5751.5	5599.9	5658.0	7027.4	6167.0
50°	8867.3	8811.3	8240.3	7431.0	7066.7	6909.3	6470.1	6255.5	6271.2	7722.4	6900.4
52.5°	8793.6	8785.8	8404.7	7749.0	7541.4	7649.5	7488.1	7197.7	7044.1	8494.4	7691.8
55°	8619.2	8636.0	8498.2	8119.2	8083.8	8364.4	8818.2	8603.5	8126.1	9273.1	8510.1
57.5°	8013.9	8057.2	8360.3	8584.8	8957.0	9374.4	9889.4	9828.3	9290.7	10114.7	9482.7
60°	6456.4	6556.8	7370.0	8494.4	9855.8	11161.4	11391.6	11250.0	10491.8	11159.4	10767.5
62.5°	4523.8	4628.2	5595.0	7354.2	9708.3	13179.6	14077.3	13466.0	12216.7	12698.1	12430.3
65°	2421.9	2472.0	3210.5	5102.7	8196.0	13595.9	18002.7	17072.3	14947.6	14595.2	13852.9
67.5°	1336.0	1363.5	1646.1	2576.5	5249.3	11972.5	20503.3	21206.2	18360.9	15858.4	13594.1
69°	1208.0	1233.6	1418.7	1951.3	3512.7	9899.2	20259.0	22296.0	19857.5	15733.4	12637.0
70°	1181.5	1205.0	1371.4	1798.6	2843.2	8159.6	19440.9	22017.4	20213.8	15285.4	11802.2
72.5°	1063.2	1088.8	1250.4	1615.6	2429.7	4068.0	15399.6	18615.9	18352.2	13253.4	8952.1
75°	991.4	1015.1	1288.7	1582.1	2326.4	2574.5	10152.1	13720.1	13490.7	9271.0	4827.0
77.5°	424.3	422.4	597.6	1339.0	2360.8	2492.7	5455.1	8571.1	7819.8	3962.7	1386.2
80°	283.5	278.7	283.5	393.7	2164.9	2506.5	2858.0	4350.5	3286.3	1010.1	683.3
82.5°	244.2	240.2	249.1	240.2	761.0	2860.9	2429.7	2313.6	1562.4	573.9	338.8
85°	164.4	157.6	214.7	215.7	359.3	2541.9	2737.0	1954.3	1264.2	340.6	167.4
87.5°	78.7	76.7	125.0	152.6	210.7	1032.7	3070.6	2002.5	1275.0	174.2	79.7
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: P269394

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5193.2	5193.2	5193.2	5193.2	5193.2	5193.2	5193.2	5193.2	5193.2	5193.2	5193.2
2.5°	5143.1	5102.7	5063.2	5016.0	4966.8	4911.8	4884.2	4856.5	4849.7	4841.8	4814.2
5°	5001.3	4944.2	4845.7	4737.4	4623.2	4511.9	4427.2	4374.1	4333.9	4313.1	4276.7
7.5°	4818.1	4734.4	4562.2	4375.1	4183.1	4007.9	3856.3	3760.8	3670.2	3627.9	3579.7
10°	4643.9	4518.8	4251.0	3975.4	3699.8	3434.8	3185.8	3009.6	2853.0	2765.4	2703.4
12.5°	4494.3	4323.0	3951.9	3578.7	3200.7	2823.6	2450.4	2157.0	1912.0	1783.0	1717.0
15°	4348.5	4141.7	3667.3	3193.7	2708.4	2195.5	1705.2	1372.4	1169.7	1088.8	1061.3
17.5°	4216.6	3951.9	3381.8	2805.9	2200.4	1580.1	1146.0	962.9	885.1	858.5	849.6
20°	4073.9	3759.9	3085.4	2400.2	1670.7	1104.6	894.9	814.1	782.7	774.8	770.8
22.5°	3936.1	3570.9	2802.0	1966.0	1200.1	852.6	768.9	735.4	730.5	737.4	737.4
25°	3818.9	3401.4	2495.8	1512.1	881.1	717.7	688.2	680.2	699.1	724.7	729.6
27.5°	3731.3	3262.6	2169.9	1116.5	701.9	624.2	623.2	636.0	682.3	731.5	741.3
30°	3671.3	3130.8	1821.4	805.3	588.7	549.4	565.2	592.7	660.7	730.5	749.1
32.5°	3640.7	3033.2	1458.0	623.2	504.0	482.4	509.0	542.4	609.4	674.4	699.1
35°	3664.4	2961.4	1115.4	519.8	445.0	428.2	455.8	488.3	527.7	555.2	573.9
37.5°	3752.8	2932.8	841.7	465.7	404.6	388.8	410.5	429.2	445.0	452.8	461.6
40°	3943.9	2963.4	674.4	438.2	382.0	362.2	371.2	378.0	387.9	395.8	399.7
42.5°	4225.4	3055.0	604.5	427.2	370.2	341.6	339.6	342.7	355.4	370.2	373.2
45°	4619.3	3216.4	599.6	434.2	364.3	324.8	316.1	319.9	339.6	362.2	366.1
47.5°	5122.3	3462.4	639.0	454.8	369.3	316.1	301.2	306.2	330.8	361.3	366.1
50°	5731.7	3806.1	704.9	485.4	390.9	318.0	296.4	299.2	324.8	358.3	363.3
52.5°	6451.4	4293.4	776.8	514.9	413.5	330.8	300.3	293.3	317.0	346.6	352.4
55°	7251.8	4918.6	850.7	541.5	425.3	346.6	308.2	285.5	302.2	326.9	331.7
57.5°	8234.4	5792.8	978.7	567.1	433.3	357.3	316.1	277.7	283.5	301.2	305.2
60°	9564.4	7029.3	1204.1	609.4	450.9	361.3	315.0	270.7	264.8	274.7	276.7
62.5°	11158.3	8372.3	1392.2	662.6	480.5	364.3	309.1	265.8	249.1	249.1	251.0
65°	12104.4	8731.5	1287.7	706.8	505.0	361.3	302.2	260.9	237.2	226.5	227.5
67.5°	11302.0	7679.2	1103.7	715.7	504.0	347.6	291.4	252.1	225.5	208.8	207.7
69°	10296.9	6625.7	1021.0	692.1	480.5	329.8	277.7	242.3	216.6	198.9	197.8
70°	9486.7	5982.8	966.8	666.5	454.8	317.0	266.7	233.3	209.8	193.0	191.0
72.5°	6897.5	3920.4	826.0	572.9	375.1	265.8	230.3	204.8	187.0	177.2	175.2
75°	3446.7	1869.6	670.5	464.8	287.5	212.7	189.1	171.2	162.5	160.4	159.4
77.5°	1132.1	856.5	479.4	346.6	213.6	166.4	152.6	139.7	137.8	143.6	141.8
80°	622.2	498.2	304.3	229.3	145.7	122.1	120.2	113.2	116.2	126.0	124.1
82.5°	317.0	258.9	188.0	137.8	98.5	87.7	95.5	91.5	95.5	104.4	103.3
85°	156.6	141.8	119.1	83.7	64.9	56.1	67.9	70.8	72.9	79.7	79.7
87.5°	90.5	83.7	63.1	39.3	32.5	29.6	39.3	38.4	45.3	49.2	48.2
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)