

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: P269722

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269722
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-10-LED-E1-SL4-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA 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: 32046.3 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 323
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

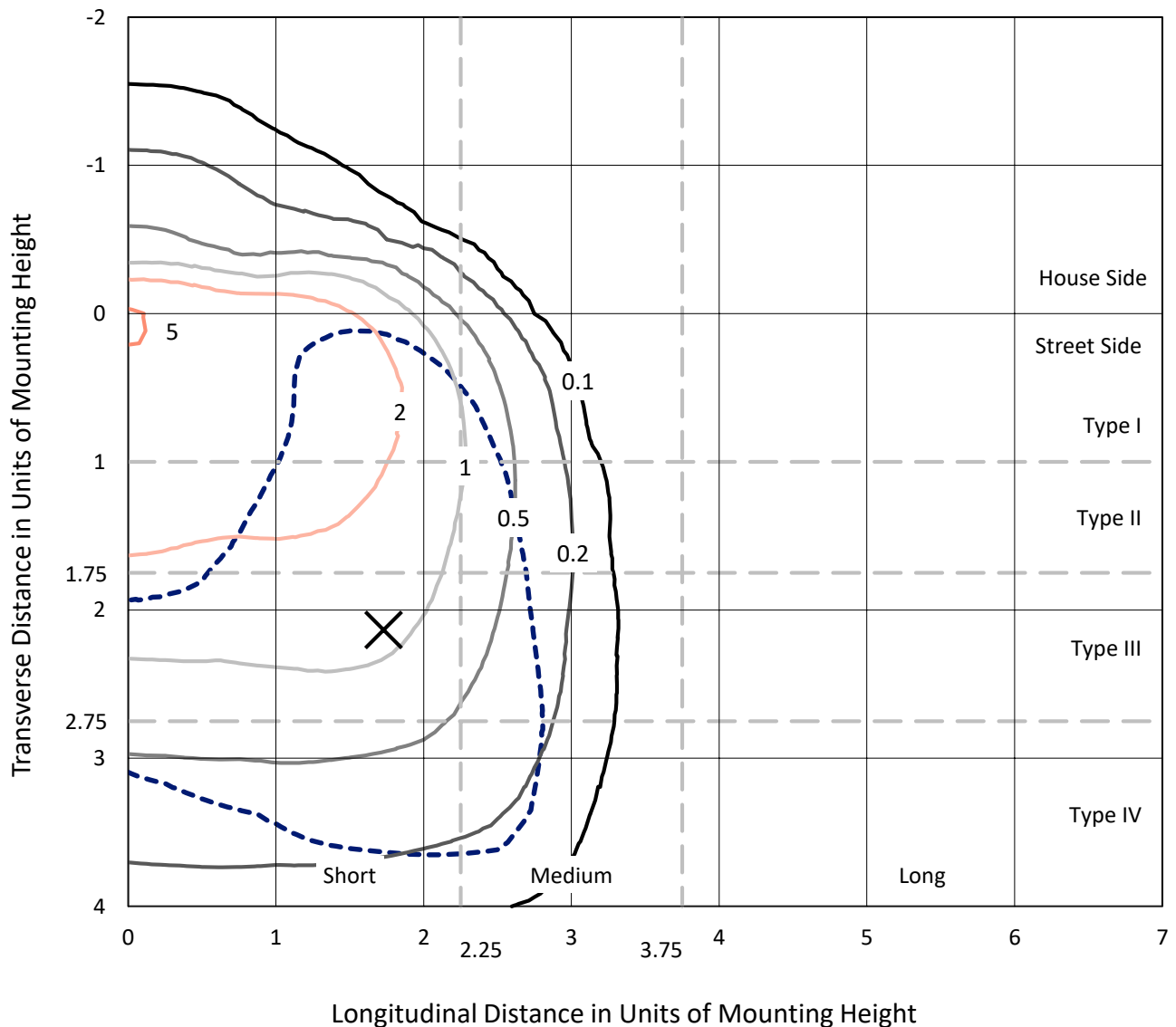


REPORT NUMBER: P269722

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-7027-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

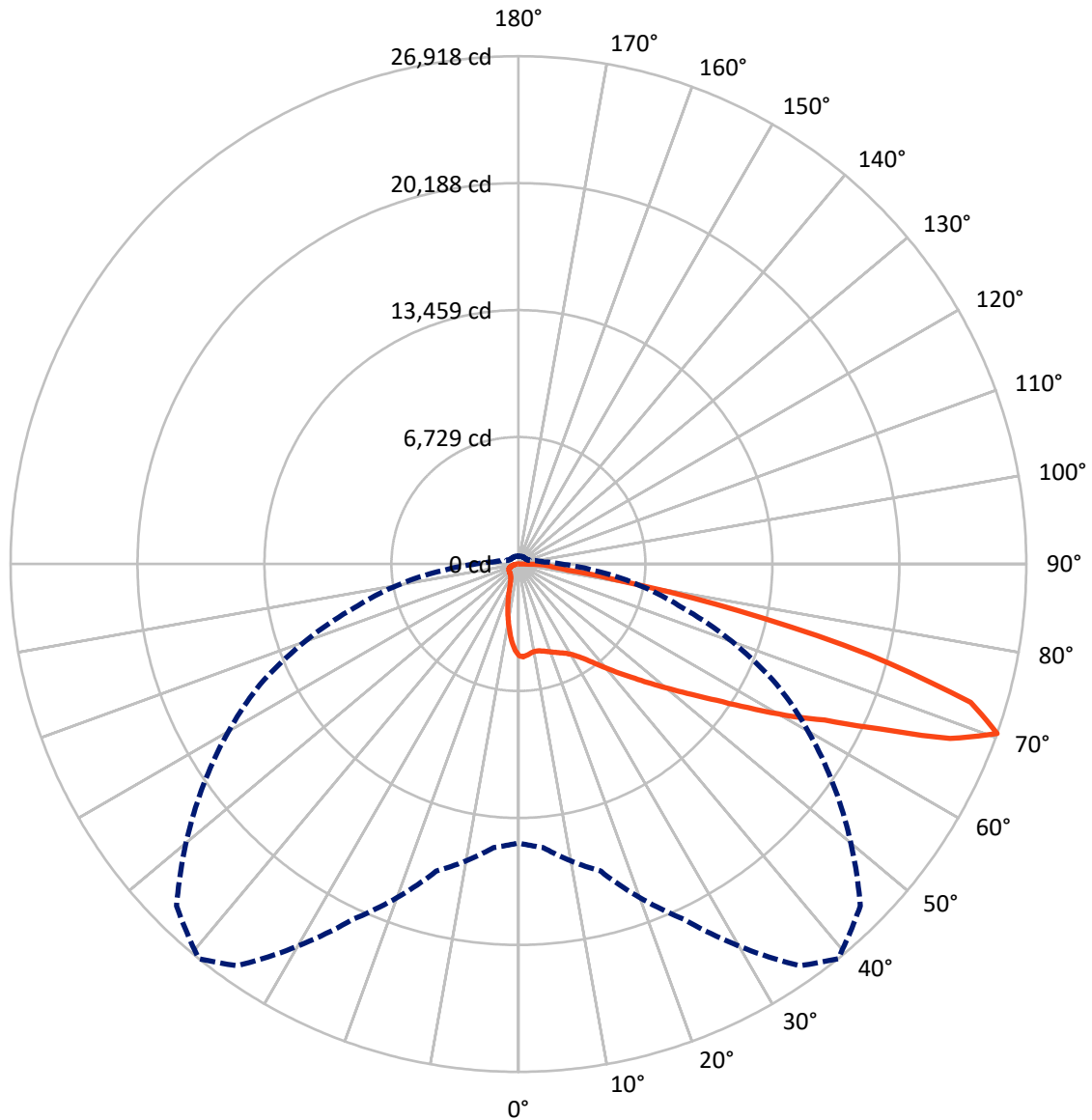


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P269722

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-7027-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269722

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3644.7	0.0	3644.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	28401.6	0.0	28401.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	32046.3	0.0	32046.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.5	1.3
10°-20°	1043.6	3.3
20°-30°	1625.0	5.1
30°-40°	2531.4	7.9
40°-50°	4249.8	13.3
50°-60°	6751.2	21.1
60°-70°	9005.4	28.1
70°-80°	5438.1	17.0
80°-90°	984.2	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°	32046.3	100.0
0°-180°	32046.3	100.0



REPORT NUMBER: P269722

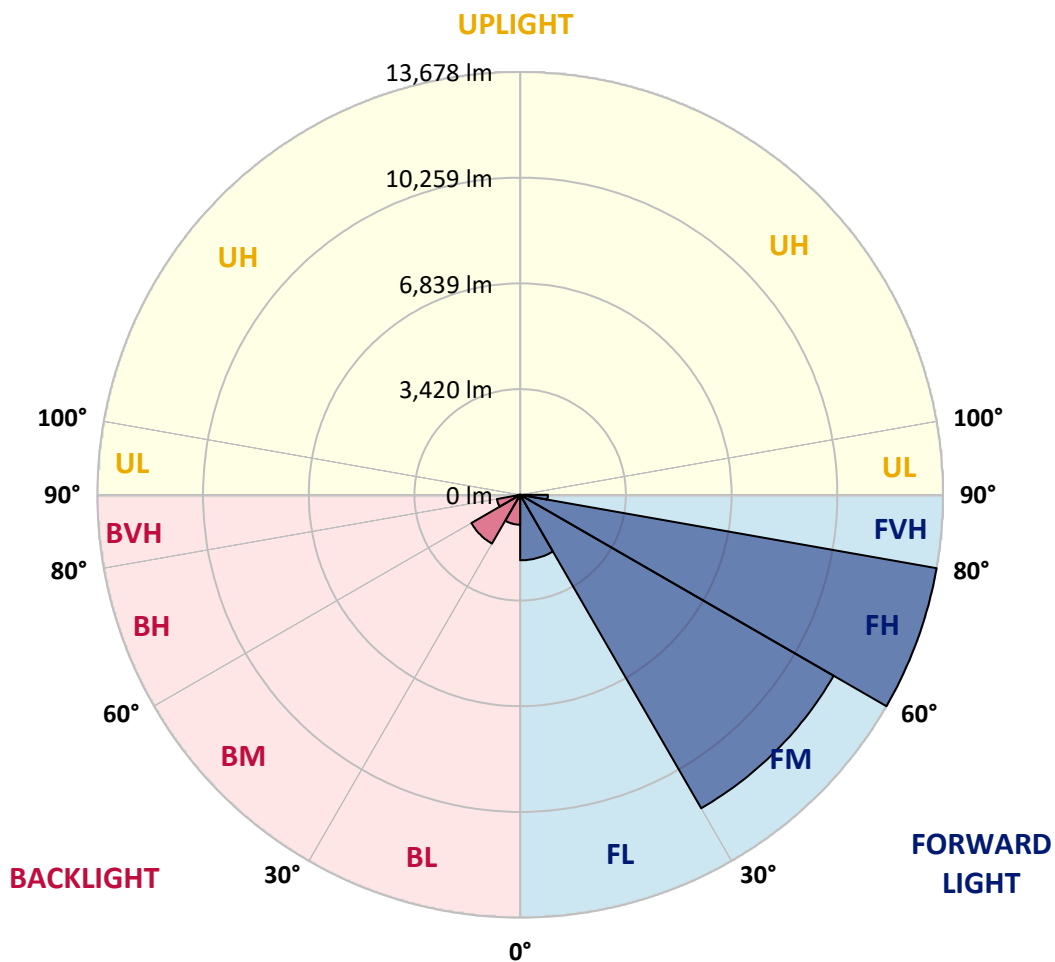
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2119.3	6.6			
FM	(30°-60°)	11708.5	36.5			
FH	(60°-80°)	13678.3	42.7			G5
FVH	(80°-90°)	895.5	2.8			G5
BL	(0°-30°)	966.9	3.0	B2/1000		
BM	(30°-60°)	1824.0	5.7	B2/2500		
BH	(60°-80°)	765.2	2.4	B2/1000		G2/1000
BVH	(80°-90°)	88.7	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: P269722

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4865.1	4865.1	4865.1	4865.1	4865.1	4865.1	4865.1	4865.1	4865.1	4865.1	4865.1
2.5°	4959.6	4958.0	4945.0	4935.2	4927.1	4923.8	4930.3	4905.9	4884.7	4858.7	4830.9
5°	4922.2	4920.6	4899.4	4879.9	4860.2	4853.7	4852.0	4808.1	4782.0	4743.0	4690.8
7.5°	4881.4	4873.2	4845.5	4812.9	4778.8	4762.5	4746.1	4689.2	4659.9	4620.7	4560.4
10°	4839.1	4829.3	4803.1	4770.5	4738.0	4713.5	4685.9	4630.6	4599.5	4570.2	4500.1
12.5°	4795.1	4786.9	4780.4	4765.8	4743.0	4721.8	4700.7	4653.3	4620.7	4586.6	4505.1
15°	4788.5	4785.4	4800.0	4809.7	4796.7	4783.7	4760.8	4720.1	4685.9	4651.8	4545.9
17.5°	4840.6	4839.1	4876.4	4902.6	4896.1	4873.2	4842.4	4796.7	4769.0	4739.6	4607.6
20°	4954.7	4962.9	5008.5	5042.7	5010.1	4977.6	4927.1	4863.6	4848.8	4835.8	4671.2
22.5°	5169.8	5178.0	5210.6	5223.6	5138.8	5091.7	5021.5	4940.0	4930.3	4940.0	4747.8
25°	5505.4	5497.3	5492.3	5443.5	5288.7	5215.4	5125.8	5041.1	5046.0	5089.9	4855.3
27.5°	5950.3	5906.3	5837.8	5691.2	5445.2	5363.7	5254.5	5176.4	5207.3	5292.1	5016.7
30°	6411.4	6362.4	6204.5	5964.9	5650.5	5560.9	5438.7	5350.7	5432.1	5565.8	5231.6
32.5°	6838.3	6831.7	6600.3	6292.4	5933.9	5855.7	5733.5	5634.2	5766.1	5969.7	5554.3
35°	7304.2	7318.9	7042.0	6672.0	6316.8	6235.3	6147.5	6072.5	6248.4	6528.6	6022.0
37.5°	7802.8	7832.1	7504.6	7087.4	6753.5	6719.3	6667.2	6634.5	6906.7	7294.4	6675.3
40°	8469.2	8439.8	7985.3	7556.7	7289.6	7287.9	7271.6	7310.8	7763.7	8294.8	7514.4
42.5°	9182.8	9096.4	8495.2	8060.2	7877.7	7933.1	7965.7	8125.3	8795.0	9510.3	8537.6
45°	9951.9	9758.0	9024.8	8592.9	8531.2	8648.4	8759.3	9106.3	10008.8	10893.6	9658.5
47.5°	10566.1	10378.7	9572.2	9151.8	9287.0	9464.7	9678.1	10227.3	11367.7	12322.5	10764.8
50°	11050.1	10927.8	10124.5	9803.7	10119.6	10393.4	10742.1	11496.5	12782.0	13714.0	11789.7
52.5°	11519.2	11428.0	10681.7	10471.6	11097.2	11475.3	11949.4	12858.6	14232.0	15082.5	12651.5
55°	11942.8	11877.7	11281.4	11304.2	12247.5	12739.7	13336.0	14409.6	15812.4	16302.9	13381.5
57.5°	12420.2	12337.1	11965.8	12348.6	13725.4	14364.1	15139.6	16153.1	17295.2	17388.0	13937.2
60°	12900.9	12829.2	12724.9	13554.3	15602.3	16273.5	17008.4	17842.7	18799.0	18230.5	13904.5
62.5°	13318.0	13326.1	13510.2	14820.2	17440.1	18217.4	19113.4	19937.9	20159.6	18377.0	12876.5
65°	14025.1	14153.9	14702.9	16612.4	20027.5	21067.1	22166.8	22034.9	20535.9	17006.8	10672.0
67.5°	14866.0	15092.3	16205.2	19001.0	23297.5	24677.6	25102.9	22509.0	19028.7	13824.7	7607.2
70°	14781.2	15092.3	16853.6	20781.8	25992.5	26917.9	25627.4	20371.4	15110.3	9031.3	4040.7
72.5°	13125.8	13570.5	15532.2	19965.5	25143.6	25062.2	22248.3	15186.8	8977.5	3626.8	1578.9
75°	10004.0	10453.7	12141.6	15773.3	19872.8	19188.4	15786.5	8389.4	3406.9	1440.3	995.5
77.5°	5754.7	6103.4	7406.9	9673.3	12607.6	11905.3	8787.0	3731.1	1658.6	1003.6	777.2
80°	3213.0	3406.9	4198.8	4907.5	6178.4	5663.5	3931.5	2318.5	1238.3	728.3	599.6
82.5°	2540.0	2712.8	3395.6	3095.6	2821.9	2603.6	2258.2	2064.3	989.0	459.5	358.5
85°	2219.2	2383.7	2874.0	2437.5	1927.5	1767.9	1834.6	2031.7	768.9	276.9	306.3
87.5°	2056.2	2276.1	2561.2	1878.5	1500.6	1329.5	1692.9	2227.3	247.7	172.7	123.8
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: P269722

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4865.1	4865.1	4865.1	4865.1	4865.1	4865.1	4865.1	4865.1	4865.1	4865.1	4865.1
2.5°	4806.6	4780.4	4738.0	4700.7	4641.9	4611.0	4576.8	4552.3	4532.8	4516.5	4542.5
5°	4658.3	4609.4	4519.7	4423.7	4309.4	4219.9	4145.0	4074.9	4026.1	3993.4	4016.2
7.5°	4518.0	4438.3	4298.1	4123.8	3928.3	3762.1	3625.2	3504.6	3421.6	3367.7	3388.9
10°	4438.3	4338.9	4122.1	3848.5	3560.1	3301.0	3085.9	2900.2	2771.5	2698.1	2709.6
12.5°	4418.8	4289.9	3990.2	3613.8	3219.5	2859.5	2556.3	2298.9	2118.2	2023.6	2026.8
15°	4433.3	4268.7	3866.3	3388.9	2890.3	2435.8	2057.8	1745.0	1534.8	1427.2	1425.6
17.5°	4457.7	4252.4	3736.1	3146.3	2556.3	2028.6	1606.4	1300.1	1114.4	1028.1	1021.6
20°	4483.9	4226.4	3589.4	2883.9	2209.3	1650.5	1257.8	1018.3	901.0	853.7	850.4
22.5°	4521.3	4203.6	3437.9	2606.9	1868.8	1344.1	1034.6	873.3	811.3	786.9	783.7
25°	4581.6	4192.2	3276.6	2318.5	1562.5	1124.1	901.0	801.6	765.7	749.5	747.8
27.5°	4682.7	4208.5	3125.1	2038.3	1313.2	976.0	826.0	765.7	739.8	725.0	723.5
30°	4812.9	4259.0	2965.3	1772.6	1119.4	874.9	780.4	741.3	720.1	705.4	705.4
32.5°	5029.7	4343.8	2797.5	1543.0	980.9	804.9	746.2	720.1	702.2	690.8	689.2
35°	5349.0	4503.5	2641.1	1352.3	881.4	754.3	716.8	697.4	684.2	677.9	677.9
37.5°	5813.4	4755.9	2502.6	1215.4	821.2	720.1	689.2	674.5	666.5	666.5	666.5
40°	6437.4	5104.7	2390.2	1124.1	786.9	695.6	668.0	656.7	651.7	653.3	653.3
42.5°	7208.1	5557.6	2315.2	1060.7	770.7	681.0	653.3	643.5	638.6	637.1	638.6
45°	8086.4	6072.5	2307.0	1013.5	754.3	671.3	643.5	633.8	624.1	617.6	617.6
47.5°	8940.0	6595.4	2374.0	997.2	736.4	659.9	635.5	625.7	610.9	596.4	596.4
50°	9694.4	7040.2	2463.5	1003.6	730.0	643.5	622.3	617.6	594.7	578.4	576.8
52.5°	10293.9	7382.5	2536.9	1023.2	736.4	632.1	606.0	607.8	583.3	565.4	563.7
55°	10774.7	7607.2	2517.3	1042.8	751.2	625.7	591.4	594.7	575.2	557.2	557.2
57.5°	10984.8	7524.2	2300.6	1026.5	762.5	627.2	580.0	593.2	576.8	560.5	560.5
60°	10533.5	6786.1	1894.9	954.8	747.8	622.3	575.2	599.6	597.9	581.7	580.0
62.5°	9168.1	5464.7	1469.6	848.9	697.4	597.9	562.1	597.9	615.9	610.9	609.4
65°	7066.3	3892.4	1122.6	734.9	629.0	557.2	527.9	560.5	584.9	591.4	589.7
67.5°	4586.6	2385.3	865.2	627.2	552.4	510.0	483.8	498.6	503.5	503.5	500.1
70°	2254.9	1283.9	689.2	527.9	474.1	459.5	444.8	436.7	428.5	422.1	422.1
72.5°	1112.8	839.0	567.0	446.5	409.0	402.4	399.1	389.4	382.9	374.8	371.4
75°	822.8	682.7	482.3	376.4	352.0	345.4	352.0	343.8	342.2	335.6	332.5
77.5°	676.2	581.7	415.5	322.6	301.4	290.1	299.9	301.4	303.1	293.2	290.1
80°	549.0	492.0	347.0	267.2	247.7	239.5	246.0	259.0	262.3	247.7	241.1
82.5°	396.0	402.4	280.2	208.5	192.2	185.7	198.7	215.1	218.3	197.2	192.2
85°	332.5	335.6	215.1	148.3	132.1	122.2	143.4	159.7	171.0	149.8	144.9
87.5°	138.5	197.2	123.8	83.2	73.3	63.5	76.5	84.7	102.6	94.5	92.9
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)