

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: P269214

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14100.9 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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

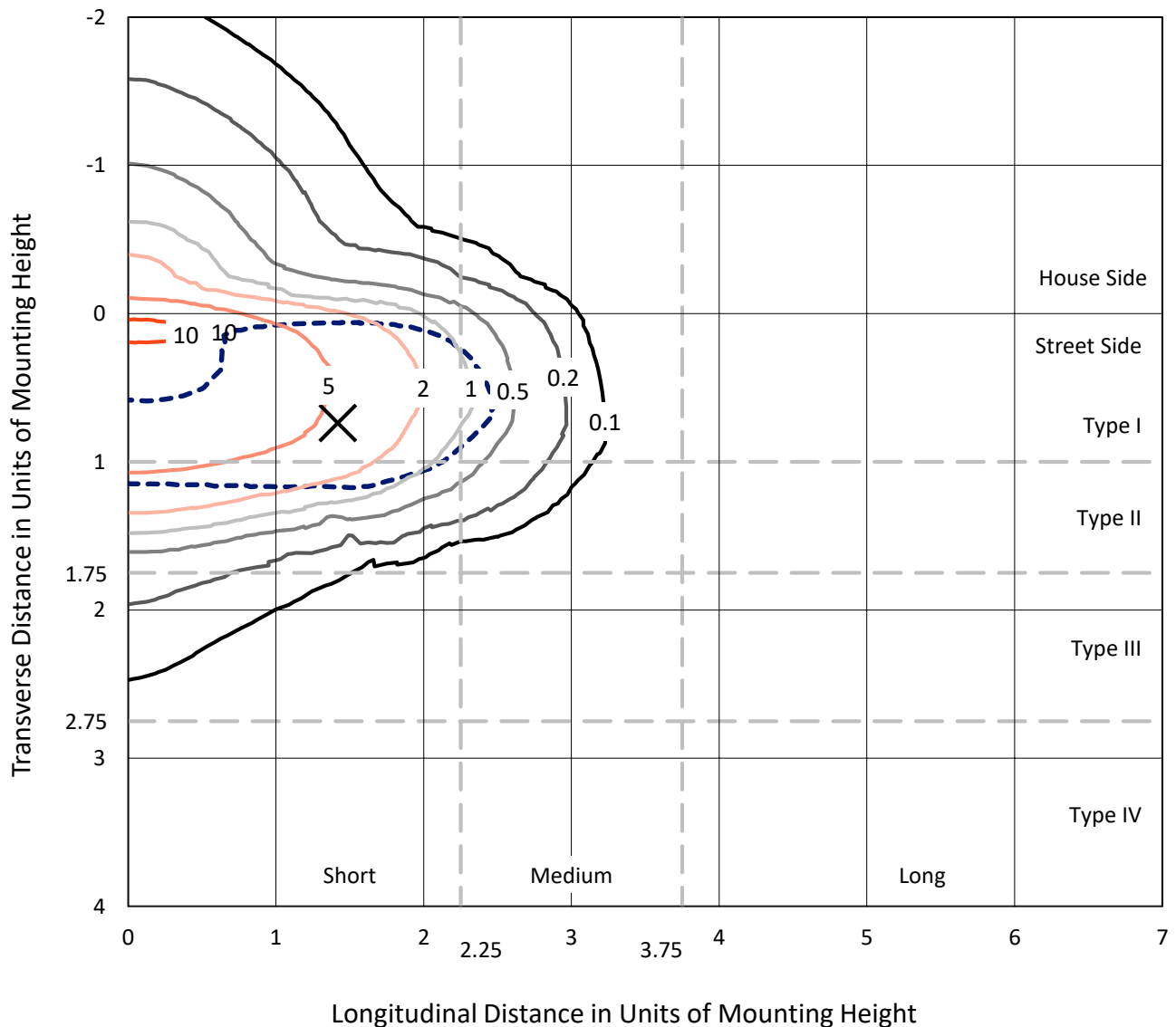


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Iso-Footcandle Lines of Horizontal Illumination

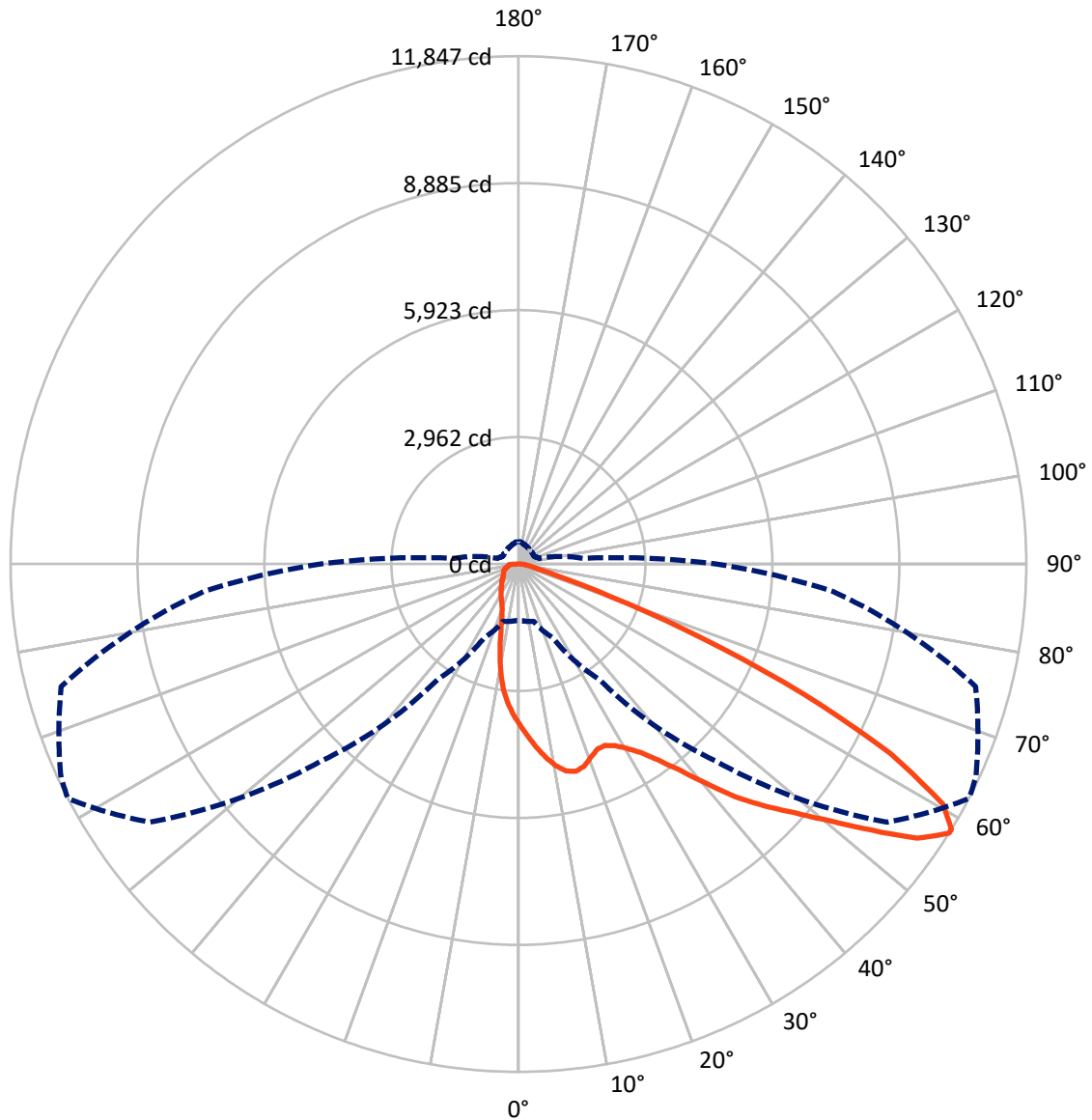
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2150.4	0.0	2150.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11950.5	0.0	11950.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	14100.9	0.0	14100.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.0	2.4
10°-20°	856.3	6.1
20°-30°	1384.2	9.8
30°-40°	2197.4	15.6
40°-50°	3215.3	22.8
50°-60°	3362.9	23.8
60°-70°	1986.8	14.1
70°-80°	559.7	4.0
80°-90°	203.2	1.4
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°	14100.9	100.0
0°-180°	14100.9	100.0



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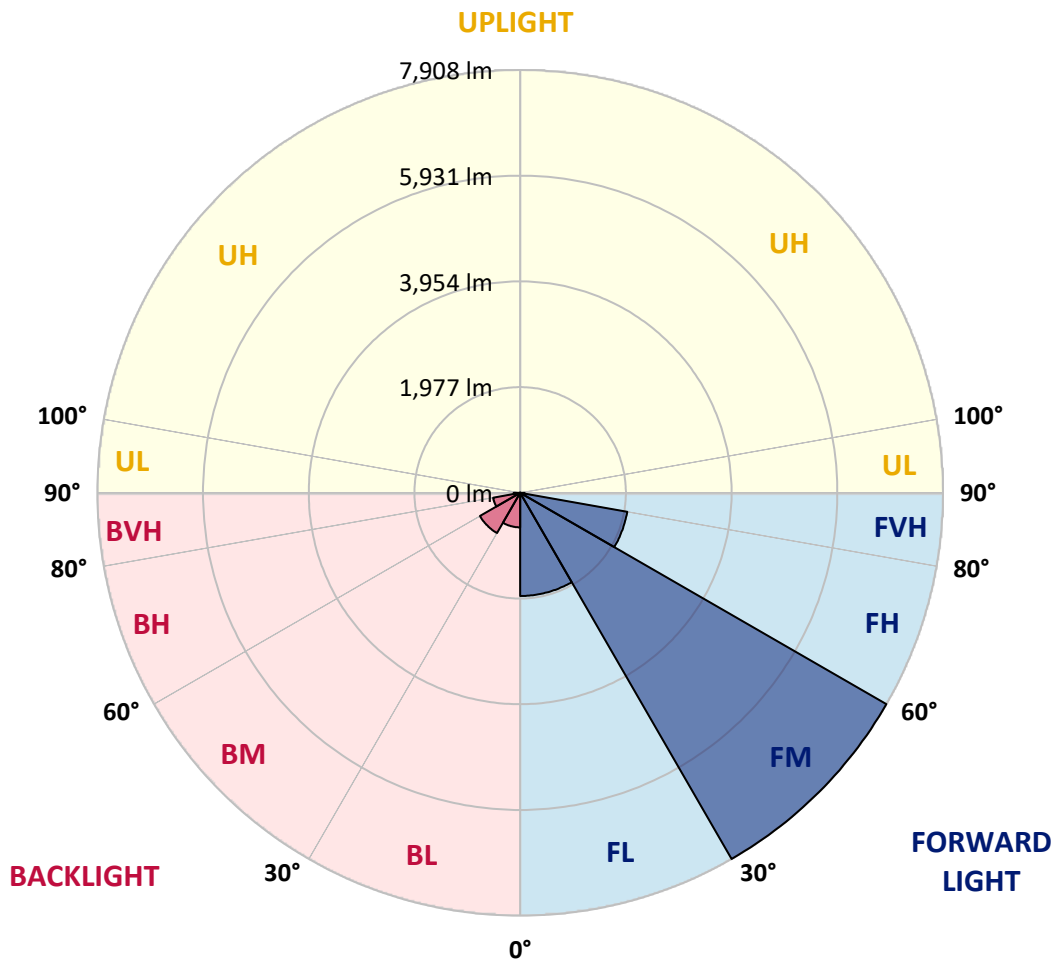
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1929.2	13.7			
FM	(30°-60°)	7907.7	56.1			
FH	(60°-80°)	2033.4	14.4			G2/5000
FVH	(80°-90°)	80.2	0.6			G1/100
BL	(0°-30°)	646.3	4.6	B2/1000		
BM	(30°-60°)	868.0	6.2	B1/1000		
BH	(60°-80°)	513.1	3.6	B2/1000		G2/1000
BVH	(80°-90°)	123.0	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3745.7	3745.7	3745.7	3745.7	3745.7	3745.7	3745.7	3745.7	3745.7	3745.7	3745.7
2.5°	4280.2	4245.6	4223.7	4204.4	4179.3	4125.5	4053.1	4007.2	3984.1	3905.0	3811.4
5°	4699.8	4669.3	4646.8	4620.8	4575.6	4491.3	4374.4	4281.5	4235.7	4077.6	3890.4
7.5°	4601.5	4614.1	4653.3	4721.8	4780.2	4768.8	4664.5	4546.4	4486.0	4266.2	3981.9
10°	4009.2	4031.1	4098.8	4259.0	4517.8	4783.5	4864.5	4782.8	4721.8	4452.8	4076.2
12.5°	3890.4	3889.8	3895.1	3937.5	4091.6	4465.5	4871.1	4953.4	4917.0	4630.8	4172.5
15°	3938.9	3940.1	3936.3	3954.1	4001.9	4150.0	4668.0	5019.2	5045.2	4810.1	4272.2
17.5°	4066.4	4063.0	4047.8	4047.8	4065.0	4122.9	4428.9	4958.0	5077.6	4968.7	4359.8
20°	4280.2	4264.9	4224.4	4187.2	4168.7	4199.8	4330.5	4817.3	5021.2	5107.6	4432.1
22.5°	4539.1	4527.2	4461.4	4381.8	4317.3	4316.6	4381.0	4694.5	4923.6	5238.2	4493.3
25°	4873.8	4854.5	4757.0	4629.4	4516.6	4473.4	4491.3	4688.6	4870.4	5380.4	4547.7
27.5°	5266.9	5231.6	5116.1	4932.2	4766.1	4679.2	4653.3	4796.7	4918.8	5556.3	4623.4
30°	5743.7	5703.1	5554.9	5315.4	5081.0	4938.2	4883.0	4988.6	5079.6	5770.8	4744.9
32.5°	6286.1	6227.7	6056.4	5792.1	5484.1	5266.3	5176.6	5242.2	5314.6	6029.2	4897.0
35°	7035.7	6966.0	6718.3	6353.8	6005.9	5706.5	5563.1	5610.9	5681.2	6414.3	5116.7
37.5°	7547.0	7515.8	7351.2	7008.5	6630.0	6285.4	6063.6	6091.5	6131.4	6895.7	5398.4
40°	7542.3	7554.9	7558.2	7561.7	7303.9	6974.0	6735.6	6706.3	6698.4	7424.2	5718.4
42.5°	7164.5	7216.4	7383.7	7723.0	7879.8	7728.3	7509.8	7425.5	7383.7	8047.0	6057.7
45°	6586.3	6614.1	6927.5	7590.1	8174.5	8475.2	8310.0	8044.4	7968.7	8619.3	6339.2
47.5°	6288.0	6318.7	6515.9	7238.3	8171.3	9078.9	9174.5	8668.6	8533.1	9117.3	6582.2
50°	5578.2	5642.1	5890.4	6626.1	7873.0	9356.4	10078.3	9412.3	9132.0	9602.2	6826.0
52.5°	4274.9	4373.0	4651.3	5619.4	7116.7	9218.9	10801.3	10313.9	9918.1	10104.0	7035.0
55°	2696.5	2769.6	3003.3	3968.7	5693.2	8503.9	11075.6	11289.3	10937.5	10579.5	7216.4
57.5°	1466.2	1498.6	1586.2	2191.1	3703.2	6922.9	10675.7	11844.4	11698.4	10983.2	7353.2
58°	1312.1	1334.0	1388.4	1899.0	3284.2	6490.7	10498.5	11846.5	11773.4	11042.3	7363.8
60°	973.5	962.2	913.7	1083.6	1828.1	4484.0	9426.9	11372.4	11586.8	11114.6	7311.9
62.5°	855.2	828.0	729.1	717.7	889.1	2065.7	7213.0	9741.6	10248.3	10701.7	6997.3
65°	803.4	774.2	646.7	605.5	641.4	873.8	4249.0	7306.1	7941.5	9449.5	6192.5
67.5°	764.9	727.1	594.3	537.8	540.5	577.7	1703.1	4601.5	5316.7	7174.6	4816.6
70°	727.7	686.6	549.9	484.7	469.5	456.9	677.3	2303.4	2952.1	4531.8	3070.9
72.5°	687.9	647.4	510.6	442.9	413.0	371.2	442.2	942.2	1316.0	2144.1	1393.1
75°	630.2	593.6	471.4	405.8	363.3	307.4	334.0	492.0	590.2	853.8	671.4
77.5°	559.0	529.2	427.7	375.1	322.0	249.6	256.9	341.3	378.5	488.7	399.0
80°	401.7	412.3	380.5	337.4	286.9	202.5	197.2	249.0	269.0	314.0	259.6
82.5°	282.2	288.1	314.8	275.6	237.1	159.4	145.4	175.3	187.2	206.5	140.0
85°	194.6	187.9	215.9	191.9	171.2	106.2	99.6	118.8	126.1	128.2	72.4
87.5°	116.9	116.9	124.9	102.9	92.3	55.2	53.8	67.7	72.4	69.1	39.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3745.7	3745.7	3745.7	3745.7	3745.7	3745.7	3745.7	3745.7	3745.7	3745.7	3745.7
2.5°	3755.5	3708.5	3608.2	3527.9	3426.2	3320.7	3261.6	3198.4	3155.3	3124.1	3173.9
5°	3784.1	3687.8	3480.8	3284.2	3067.1	2841.2	2669.9	2510.7	2399.7	2330.7	2395.7
7.5°	3829.3	3681.3	3351.1	3015.3	2625.4	2249.6	1913.7	1703.1	1580.3	1519.9	1557.8
10°	3881.0	3670.7	3199.1	2650.7	2093.0	1619.6	1368.5	1283.5	1255.7	1244.3	1249.6
12.5°	3924.2	3648.0	3012.6	2209.8	1571.7	1278.8	1206.6	1204.4	1210.5	1211.9	1213.8
15°	3954.8	3614.8	2735.7	1750.3	1257.0	1165.3	1161.2	1173.2	1184.5	1189.3	1192.0
17.5°	3975.4	3546.4	2423.0	1383.7	1126.1	1110.2	1119.5	1134.7	1146.7	1150.0	1152.7
20°	3973.5	3446.2	2050.4	1154.1	1055.1	1055.1	1071.0	1082.9	1083.6	1079.7	1081.6
22.5°	3952.8	3308.6	1689.3	1031.9	992.0	1003.2	1019.2	1008.0	961.5	931.0	932.9
25°	3918.2	3144.6	1379.7	954.2	933.6	953.6	948.9	863.9	797.4	767.6	767.6
27.5°	3887.8	2950.8	1142.0	886.4	875.2	899.7	817.4	740.4	712.4	698.5	693.9
30°	3865.9	2741.6	983.4	821.4	820.1	802.0	709.1	687.9	683.3	671.9	668.0
32.5°	3871.2	2529.8	881.7	764.3	768.9	686.6	657.4	662.1	658.0	646.2	640.9
35°	3915.0	2328.6	815.4	712.4	698.5	620.2	626.7	635.5	634.2	617.6	612.3
37.5°	3993.2	2138.1	771.6	669.2	609.6	587.0	597.6	610.8	607.6	596.3	592.3
40°	4075.6	1958.8	735.7	635.5	557.0	564.3	573.7	581.1	584.3	587.6	584.9
42.5°	4156.0	1771.5	691.9	601.0	535.2	543.1	547.2	554.4	572.4	584.9	584.3
45°	4203.8	1595.6	646.7	551.7	518.0	522.5	519.8	534.5	556.4	577.0	577.7
47.5°	4256.9	1458.8	610.8	506.6	501.3	504.7	496.7	511.2	531.2	556.4	559.0
50°	4321.3	1377.1	582.3	470.8	478.7	478.7	476.7	490.0	518.0	547.2	552.5
52.5°	4394.4	1361.2	558.4	444.9	456.2	455.5	457.4	477.4	507.9	536.5	541.1
55°	4483.4	1404.4	532.5	425.6	434.3	436.9	443.6	466.1	492.0	524.6	526.5
57.5°	4586.9	1492.1	511.9	410.3	414.4	422.9	433.6	454.2	482.1	518.0	519.8
58°	4604.3	1510.6	508.6	409.0	410.3	420.2	432.3	452.1	480.1	519.2	521.2
60°	4604.8	1572.4	501.3	403.1	395.1	411.7	425.0	444.9	476.7	523.9	528.6
62.5°	4441.5	1571.7	496.0	394.4	379.2	399.7	414.9	438.3	473.4	535.2	544.6
65°	3911.0	1428.2	470.8	381.2	366.5	389.1	406.4	433.6	482.7	584.3	590.2
67.5°	3059.1	1170.6	423.6	362.6	349.9	378.5	401.1	433.0	492.7	595.5	599.6
70°	2022.5	875.8	371.9	341.3	332.6	365.9	403.7	455.5	481.4	571.7	561.1
72.5°	1049.8	614.9	329.9	314.8	312.7	354.7	442.2	452.8	470.2	537.8	524.6
75°	551.1	427.0	293.4	285.5	288.9	352.0	521.9	440.9	455.5	514.5	539.8
77.5°	337.4	344.6	262.2	258.9	265.5	344.0	521.2	425.6	434.3	473.4	501.3
80°	225.7	279.6	238.4	239.0	243.7	314.8	468.1	401.7	408.4	447.5	476.1
82.5°	142.8	165.4	216.4	227.7	221.8	259.6	397.7	365.9	375.1	511.9	541.1
85°	72.4	103.6	187.9	219.1	199.9	181.9	322.8	320.8	325.4	369.3	385.8
87.5°	33.1	57.1	146.8	191.2	150.7	113.5	234.4	237.7	256.2	262.2	262.2
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)