

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: P191172

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191172
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-04-LED-E1-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA 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: 24564.1 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

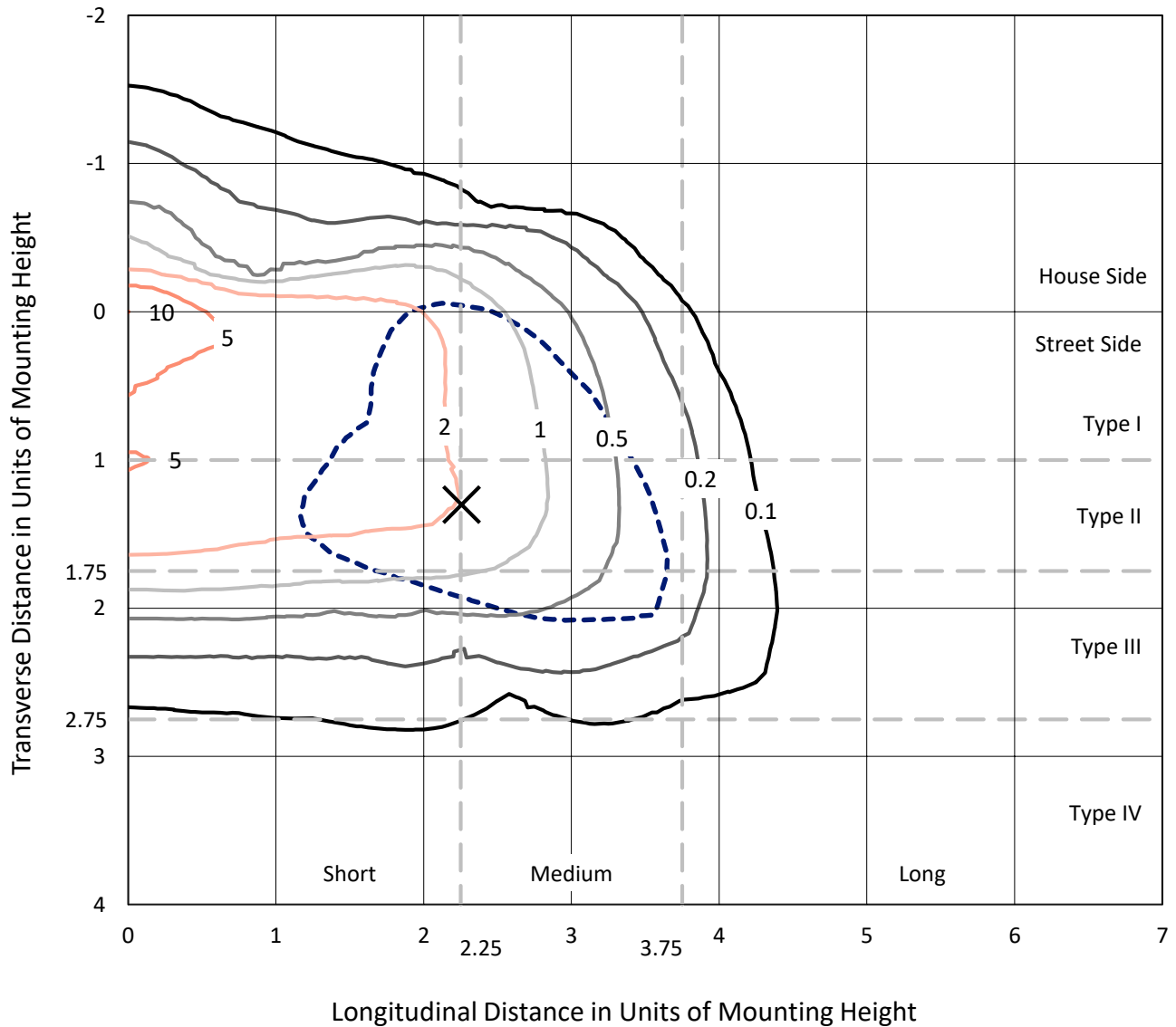
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191172
 CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3

Iso-Footcandle Lines of Horizontal Illumination

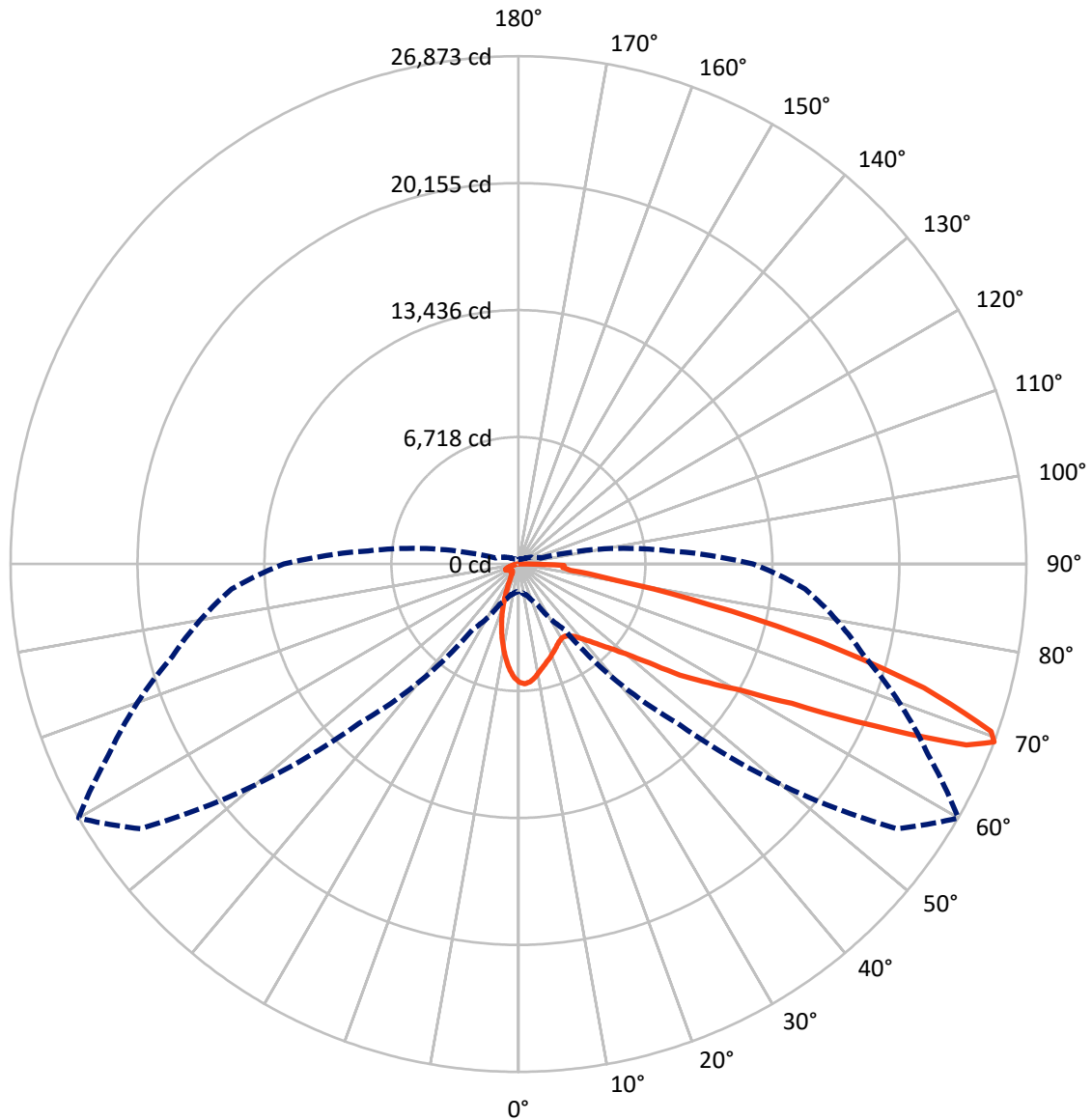
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P191172
CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3494.7	0.0	3494.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	21069.4	0.0	21069.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	24564.1	0.0	24564.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.2	2.2
10°-20°	1127.6	4.6
20°-30°	1436.8	5.8
30°-40°	1975.2	8.0
40°-50°	3204.9	13.0
50°-60°	5139.9	20.9
60°-70°	6840.8	27.8
70°-80°	3693.5	15.0
80°-90°	616.3	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°	24564.1	100.0
0°-180°	24564.1	100.0

Coefficient of Utilization



REPORT NUMBER: P191172

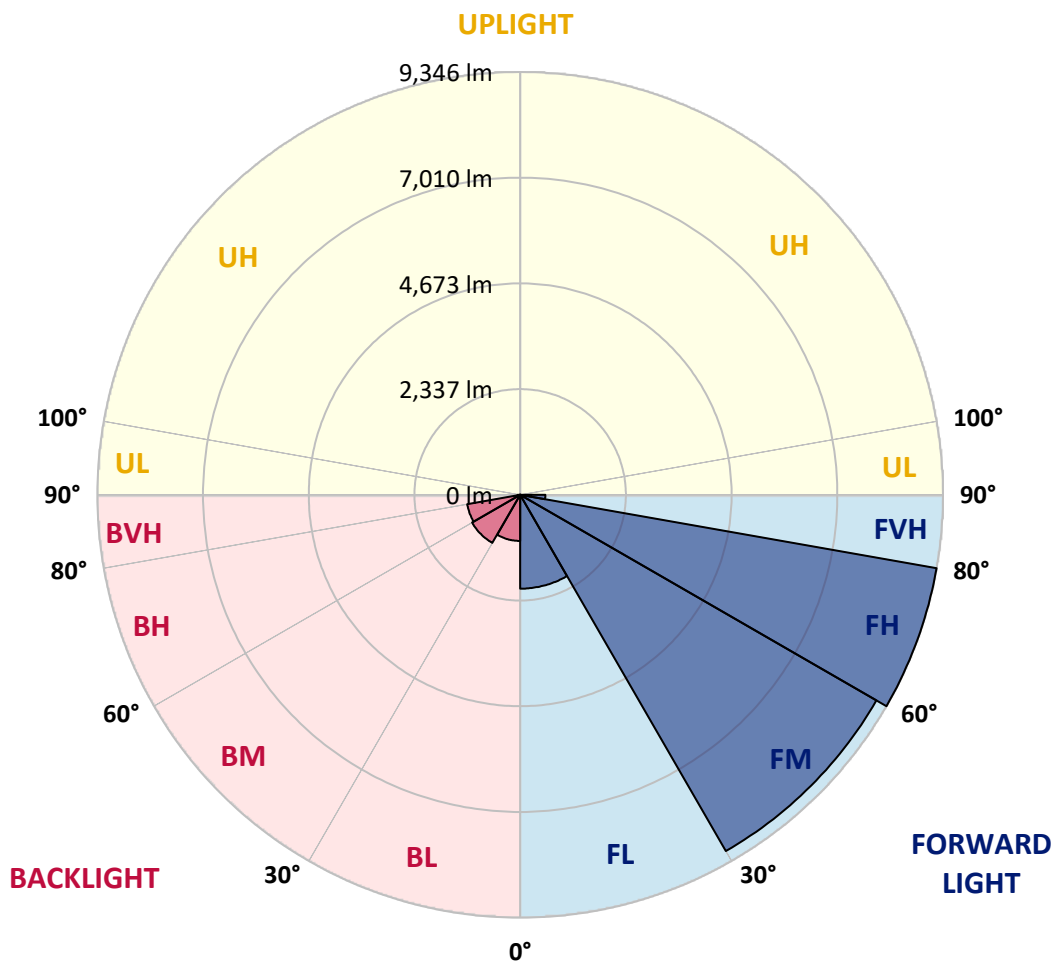
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2074.1	8.4			
FM	(30°-60°)	9092.2	37.0			
FH	(60°-80°)	9346.2	38.0			G4/12000
FVH	(80°-90°)	556.9	2.3			G4/750
BL	(0°-30°)	1019.5	4.2	B3/2500		
BM	(30°-60°)	1227.8	5.0	B2/2500		
BH	(60°-80°)	1188.1	4.8	B3/2500		G3/2500
BVH	(80°-90°)	59.3	0.2			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 III Medium





REPORT NUMBER: P191172

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6259.3	6259.3	6259.3	6259.3	6259.3	6259.3	6259.3	6259.3	6259.3	6259.3	6259.3
2.5°	6387.5	6401.7	6395.8	6392.2	6402.9	6386.3	6351.9	6341.2	6324.6	6285.4	6218.9
5°	6147.7	6190.5	6188.1	6220.2	6273.6	6287.8	6272.3	6274.8	6243.9	6195.2	6084.9
7.5°	5733.6	5751.4	5761.0	5830.9	5928.2	6006.6	6073.1	6094.3	6080.1	6038.6	5896.2
10°	5306.5	5320.7	5343.3	5425.1	5548.6	5656.5	5782.3	5854.7	5885.5	5878.4	5719.4
12.5°	4939.8	4954.0	4983.7	5076.3	5223.4	5356.3	5539.1	5629.2	5702.7	5746.7	5575.8
15°	4611.2	4641.9	4670.5	4777.3	4942.2	5116.6	5323.1	5437.0	5550.9	5649.3	5448.8
17.5°	4354.8	4385.7	4402.3	4499.6	4675.2	4888.8	5130.8	5264.9	5407.3	5568.7	5323.1
20°	4206.5	4220.7	4213.6	4268.2	4426.0	4652.7	4939.8	5095.2	5267.3	5492.7	5197.3
22.5°	4164.9	4166.2	4140.1	4134.2	4236.1	4427.2	4735.8	4924.4	5135.6	5442.9	5089.3
25°	4265.8	4262.2	4191.0	4132.9	4143.6	4255.2	4538.7	4758.3	5025.2	5432.3	5006.2
27.5°	4490.1	4500.8	4395.2	4286.0	4178.0	4174.5	4389.3	4620.6	4935.0	5480.9	4970.6
30°	4804.5	4822.3	4709.6	4570.7	4367.9	4200.5	4331.1	4538.7	4879.3	5581.7	4964.7
32.5°	5148.6	5167.6	5082.2	4936.2	4670.5	4362.0	4371.5	4545.9	4876.9	5723.0	5005.1
35°	5515.3	5536.7	5492.7	5369.4	5073.9	4659.7	4525.7	4661.0	4954.0	5938.9	5113.0
37.5°	5924.7	5957.9	5969.7	5852.3	5536.7	5052.6	4778.4	4879.3	5128.5	6239.2	5311.3
40°	6514.5	6560.7	6557.1	6388.6	6067.1	5583.0	5168.9	5195.0	5400.3	6640.2	5628.1
42.5°	7644.1	7653.5	7358.1	6991.5	6650.9	6140.7	5629.2	5607.8	5775.2	7148.1	6094.3
45°	9081.0	9041.9	8384.5	7676.1	7260.8	6781.4	6228.4	6124.0	6251.0	7767.5	6678.1
47.5°	10273.6	10183.4	9352.7	8375.0	7906.3	7478.0	6932.1	6749.3	6819.4	8469.9	7432.9
50°	10687.7	10620.1	9931.8	8956.4	8517.4	8327.5	7798.4	7539.7	7558.7	9307.7	8316.9
52.5°	10598.7	10589.2	10130.0	9339.7	9089.3	9219.9	9025.3	8675.2	8490.1	10238.0	9270.9
55°	10388.7	10408.8	10242.7	9785.9	9743.2	10081.4	10628.4	10369.7	9794.1	11176.6	10256.9
57.5°	9658.9	9711.1	10076.6	10347.1	10795.7	11298.8	11919.4	11845.8	11197.9	12191.1	11429.3
60°	7781.7	7902.7	8882.9	10238.0	11879.0	13452.5	13730.1	13559.3	12645.6	13450.1	12977.9
62.5°	5452.4	5578.3	6743.4	8863.9	11701.0	15885.0	16967.2	16230.3	14724.6	15304.8	14982.0
65°	2919.0	2979.5	3869.5	6150.2	9878.4	16387.0	21698.1	20576.9	18016.1	17591.4	16696.6
67.5°	1610.2	1643.5	1984.0	3105.4	6327.0	14430.3	24712.1	25559.3	22130.1	19113.7	16384.6
69°	1456.0	1486.9	1709.9	2351.9	4233.8	11931.3	24417.8	26872.9	23933.7	18963.1	15231.2
70°	1423.9	1452.4	1652.9	2167.9	3426.9	9834.5	23431.8	26537.1	24363.2	18423.1	14224.9
72.5°	1281.6	1312.3	1507.0	1947.2	2928.5	4903.0	18560.8	22437.4	22119.4	15974.0	10789.8
75°	1194.9	1223.3	1553.2	1906.9	2803.9	3102.9	12236.2	16536.4	16260.0	11174.2	5817.9
77.5°	511.4	509.0	720.3	1613.8	2845.4	3004.5	6574.9	10330.6	9425.2	4776.1	1670.7
80°	341.8	335.8	341.8	474.6	2609.3	3021.1	3444.7	5243.5	3960.9	1217.4	823.5
82.5°	294.3	289.5	300.2	289.5	917.3	3448.3	2928.5	2788.5	1883.2	691.8	408.2
85°	198.1	189.9	258.7	259.8	433.1	3063.8	3298.7	2355.4	1523.6	410.6	201.7
87.5°	94.9	92.6	150.7	183.9	253.9	1244.7	3701.0	2413.6	1536.7	210.0	96.2
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: P191172

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6259.3	6259.3	6259.3	6259.3	6259.3	6259.3	6259.3	6259.3	6259.3	6259.3	6259.3
2.5°	6198.8	6150.2	6102.7	6045.7	5986.4	5919.9	5886.7	5853.5	5845.1	5835.7	5802.5
5°	6027.9	5959.1	5840.4	5709.9	5572.3	5438.2	5336.1	5272.1	5223.4	5198.5	5154.5
7.5°	5807.2	5706.3	5498.7	5273.2	5041.8	4830.7	4647.9	4532.8	4423.6	4372.6	4314.5
10°	5597.2	5446.5	5123.8	4791.5	4459.2	4140.1	3839.9	3627.4	3438.8	3333.2	3258.4
12.5°	5416.8	5210.4	4763.0	4313.3	3857.6	3403.2	2953.5	2599.8	2304.4	2148.9	2069.4
15°	5241.2	4992.0	4420.1	3849.4	3264.3	2646.1	2055.2	1654.1	1409.7	1312.3	1279.2
17.5°	5082.2	4763.0	4075.9	3381.8	2652.0	1904.5	1381.2	1160.5	1066.7	1034.7	1024.1
20°	4910.2	4531.7	3718.8	2892.9	2013.7	1331.4	1078.6	981.3	943.4	933.9	929.1
22.5°	4744.0	4303.8	3377.1	2369.7	1446.5	1027.6	926.7	886.4	880.5	888.7	888.7
25°	4602.8	4099.7	3008.0	1822.6	1062.0	865.0	829.4	819.9	842.5	873.3	879.2
27.5°	4497.2	3932.4	2615.3	1345.6	846.1	752.3	751.2	766.5	822.4	881.7	893.5
30°	4424.9	3773.4	2195.3	970.7	709.6	662.2	681.1	714.3	796.2	880.5	903.0
32.5°	4388.0	3655.9	1757.3	751.2	607.5	581.4	613.5	653.8	734.5	812.8	842.5
35°	4416.5	3569.3	1344.5	626.6	536.3	516.2	549.4	588.5	636.0	669.2	691.8
37.5°	4523.3	3534.9	1014.6	561.3	487.7	468.7	494.8	517.3	536.3	545.8	556.5
40°	4753.6	3571.6	812.8	528.0	460.4	436.7	447.3	455.6	467.5	477.0	481.8
42.5°	5092.9	3682.0	728.5	515.0	446.2	411.7	409.4	413.0	428.4	446.2	449.7
45°	5567.5	3876.6	722.6	523.2	439.1	391.6	380.9	385.7	409.4	436.7	441.4
47.5°	6173.9	4173.2	770.1	548.2	445.0	380.9	363.1	369.1	398.7	435.5	441.4
50°	6908.4	4587.4	849.6	585.0	471.1	383.3	357.2	360.7	391.6	431.9	437.8
52.5°	7775.8	5174.8	936.2	620.6	498.4	398.7	361.9	353.6	382.1	417.7	424.8
55°	8740.5	5928.2	1025.2	652.6	512.6	417.7	371.4	344.1	364.3	393.9	399.9
57.5°	9924.7	6981.9	1179.5	683.4	522.1	430.8	380.9	334.6	341.8	363.1	367.9
60°	11527.8	8472.3	1451.3	734.5	543.5	435.5	379.7	326.3	319.2	331.0	333.5
62.5°	13448.9	10090.8	1677.8	798.6	579.1	439.1	372.6	320.4	300.2	300.2	302.6
65°	14589.2	10523.9	1552.0	852.0	608.8	435.5	364.3	314.5	286.0	272.9	274.2
67.5°	13622.1	9255.5	1330.1	862.7	607.5	418.9	351.3	303.8	271.7	251.5	250.4
69°	12410.6	7985.8	1230.5	834.2	579.1	397.5	334.6	292.0	261.1	239.7	238.6
70°	11434.0	7211.0	1165.2	803.3	548.2	382.1	321.6	281.2	252.8	232.6	230.2
72.5°	8313.3	4725.0	995.5	690.6	452.1	320.4	277.6	246.8	225.5	213.6	211.2
75°	4154.3	2253.4	808.0	560.1	346.5	256.4	227.8	206.4	195.8	193.4	192.2
77.5°	1364.6	1032.4	577.9	417.7	257.5	200.5	183.9	168.5	166.1	173.3	170.8
80°	749.9	600.4	366.6	276.5	175.6	147.1	144.7	136.5	140.0	151.9	149.6
82.5°	382.1	312.1	226.7	166.1	118.7	105.6	115.1	110.4	115.1	125.8	124.6
85°	188.6	170.8	143.6	100.9	78.4	67.6	81.8	85.4	87.8	96.2	96.2
87.5°	109.1	100.9	75.9	47.5	39.2	35.6	47.5	46.2	54.6	59.3	58.1
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)