

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: P269239

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19551.1 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - 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

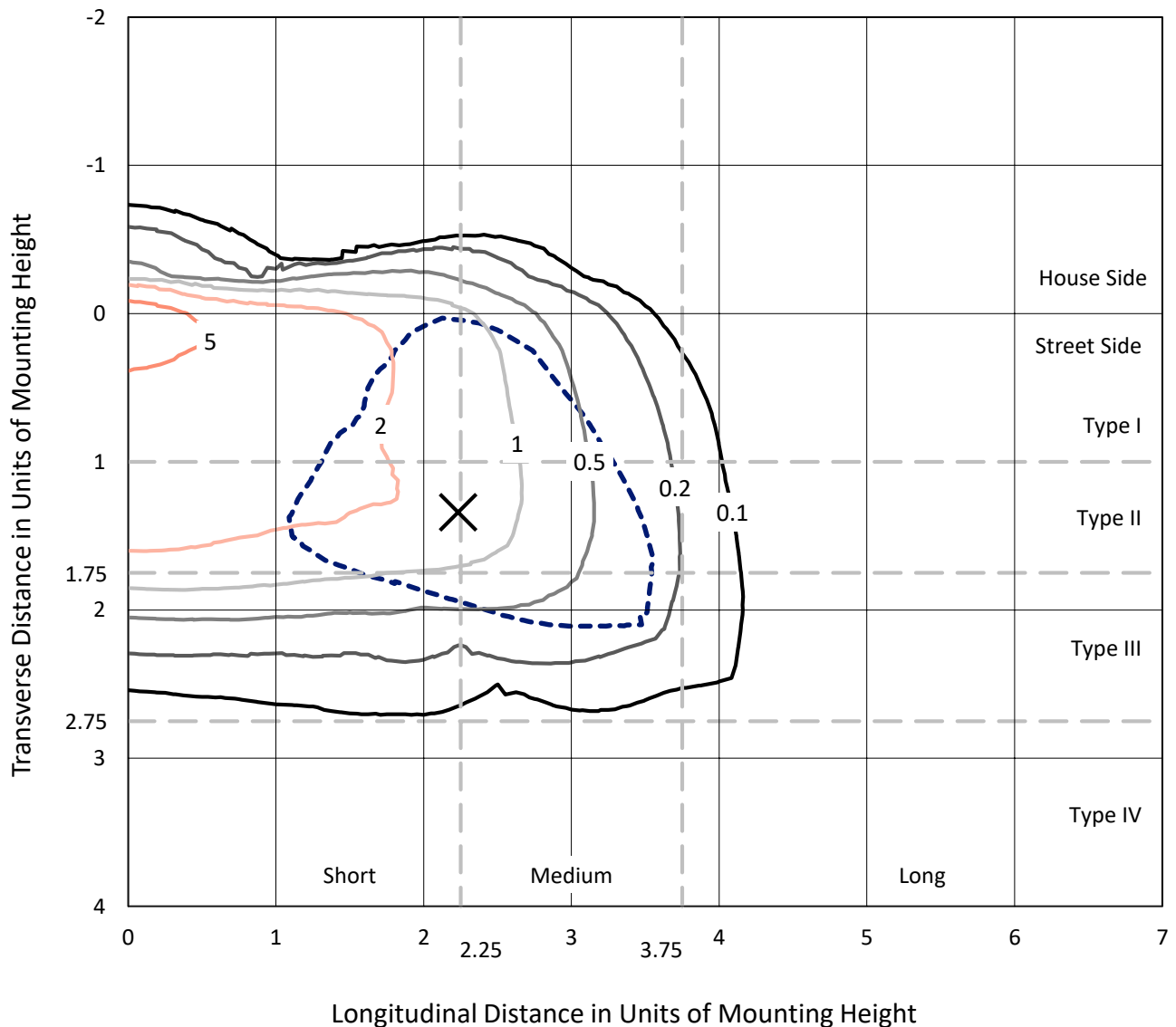


REPORT NUMBER: P269239

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7027-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

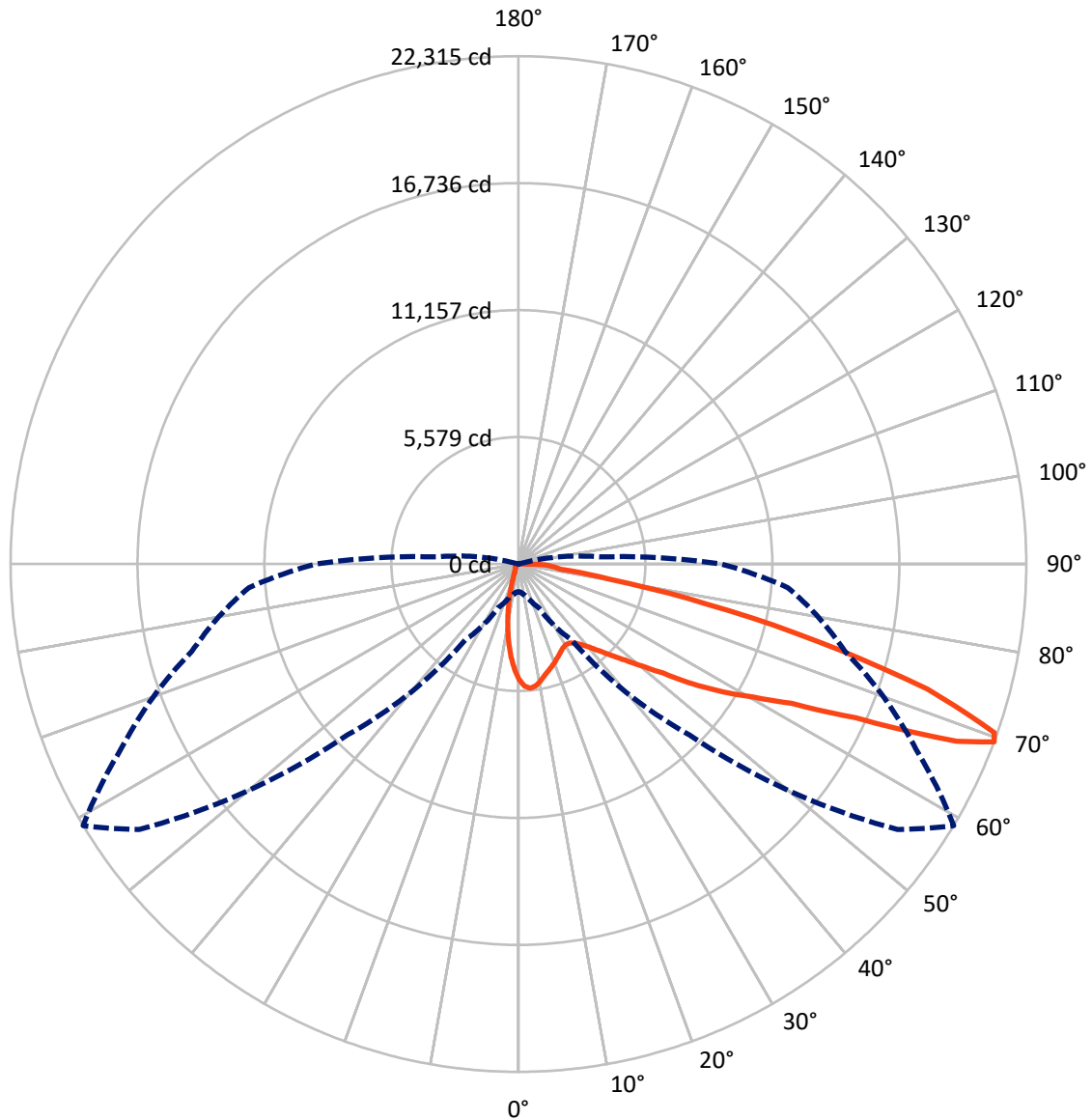


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P269239

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7027-1200-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P269239

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1592.2	0.0	1592.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	17958.9	0.0	17958.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	19551.1	0.0	19551.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.1	2.1
10°-20°	853.5	4.4
20°-30°	1148.5	5.9
30°-40°	1667.6	8.5
40°-50°	2776.6	14.2
50°-60°	4331.5	22.2
60°-70°	5359.9	27.4
70°-80°	2716.3	13.9
80°-90°	284.2	1.5
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°	19551.1	100.0
0°-180°	19551.1	100.0



REPORT NUMBER: P269239

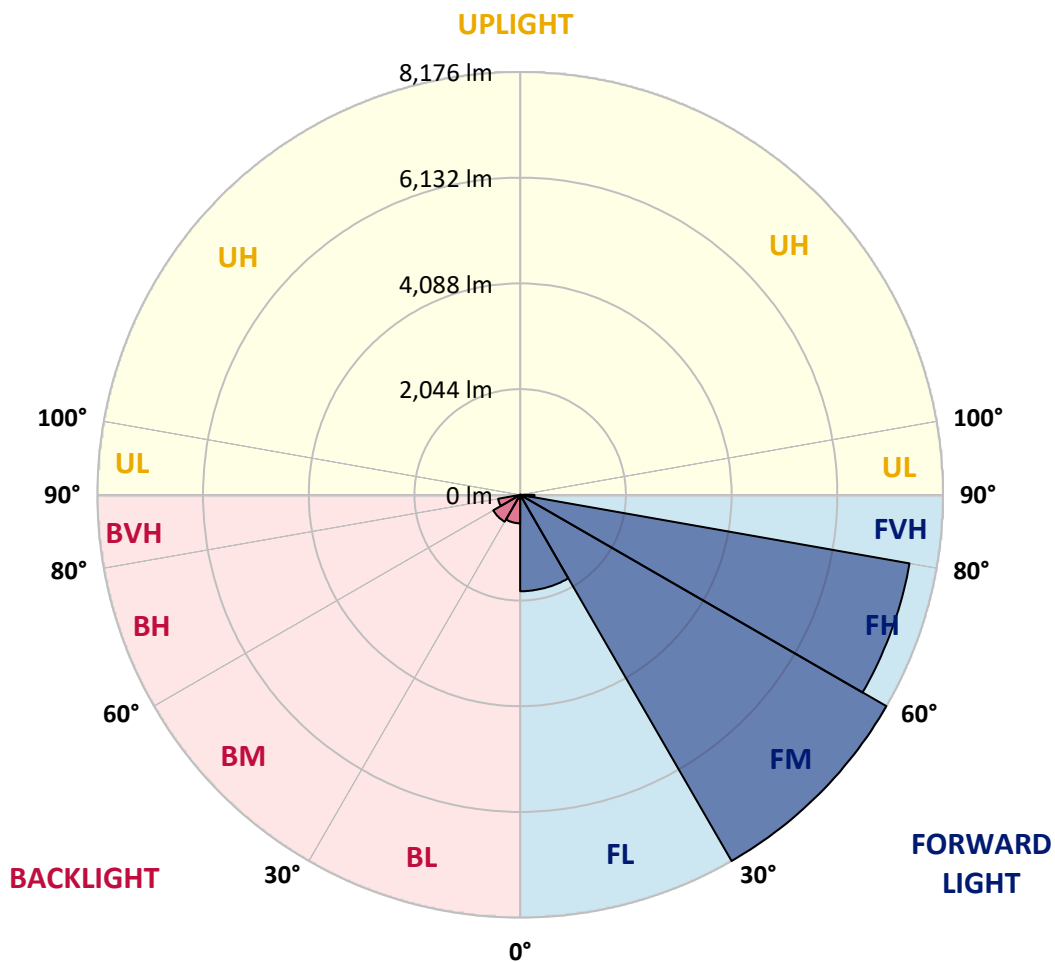
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1864.0	9.5			
FM	(30°-60°)	8175.7	41.8			
FH	(60°-80°)	7643.8	39.1			G4/12000
FVH	(80°-90°)	275.5	1.4			G3/500
BL	(0°-30°)	551.1	2.8	B2/1000		
BM	(30°-60°)	599.9	3.1	B1/1000		
BH	(60°-80°)	432.4	2.2	B1/500		G1/500
BVH	(80°-90°)	8.7	0.0			G0/10
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 Short





REPORT NUMBER: P269239

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7027-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9
2.5°	5577.5	5575.3	5550.9	5539.9	5520.1	5478.0	5412.7	5378.5	5323.3	5227.1	5097.7
5°	5526.7	5553.2	5567.5	5568.8	5583.1	5567.5	5508.9	5480.3	5403.9	5249.2	5017.0
7.5°	5181.8	5191.8	5232.5	5268.0	5336.6	5401.8	5422.8	5410.6	5365.2	5199.4	4891.0
10°	4812.5	4822.5	4871.1	4917.5	5010.3	5110.9	5217.1	5239.3	5258.0	5128.8	4769.5
12.5°	4494.1	4504.0	4553.8	4614.7	4723.0	4846.7	5011.6	5047.9	5130.8	5061.2	4672.1
15°	4219.9	4224.3	4273.0	4348.2	4477.5	4636.7	4823.5	4882.2	5009.3	5013.7	4586.9
17.5°	3986.7	3997.6	4027.6	4099.4	4240.9	4437.6	4655.5	4739.5	4888.8	4973.9	4504.0
20°	3844.0	3855.0	3854.0	3893.8	4021.0	4230.9	4487.5	4588.1	4769.5	4933.0	4430.0
22.5°	3816.4	3816.4	3787.7	3782.1	3857.3	4033.1	4312.9	4435.6	4662.2	4915.3	4378.0
25°	3914.8	3910.3	3838.5	3779.9	3783.2	3888.3	4143.6	4289.5	4571.5	4927.5	4350.4
27.5°	4122.6	4117.1	4026.5	3914.8	3825.3	3824.2	4015.3	4172.4	4499.6	4985.0	4361.5
30°	4410.0	4407.9	4309.4	4169.0	4006.5	3857.3	3971.1	4113.8	4453.2	5088.9	4386.9
32.5°	4724.0	4720.8	4646.7	4498.5	4292.9	4006.5	4017.6	4137.1	4466.5	5227.1	4448.8
35°	5056.7	5051.3	5019.2	4889.8	4663.2	4281.9	4170.1	4263.0	4550.5	5433.8	4570.3
37.5°	5417.1	5422.8	5446.0	5322.2	5084.4	4667.7	4425.5	4488.7	4719.6	5714.7	4768.3
40°	5949.0	5947.9	5955.7	5793.1	5564.3	5139.7	4782.7	4802.6	5002.7	6087.3	5069.0
42.5°	6914.2	6846.7	6642.2	6310.6	6080.5	5679.3	5232.5	5211.5	5348.7	6548.3	5490.3
45°	8211.0	8067.3	7536.6	6900.9	6606.9	6287.2	5786.5	5719.1	5806.4	7102.1	6009.8
47.5°	9326.6	9177.3	8426.6	7515.6	7165.2	6864.4	6435.5	6313.8	6342.7	7722.3	6668.7
50°	9705.6	9632.7	8977.1	8050.7	7705.8	7590.8	7188.3	7040.1	6999.4	8439.8	7432.7
52.5°	9574.1	9568.6	9131.9	8397.9	8201.0	8342.5	8135.8	7964.5	7814.0	9195.9	8209.9
55°	9362.9	9390.6	9195.0	8701.8	8695.2	9029.1	9431.6	9289.0	8853.3	10017.4	8879.8
57.5°	8780.4	8898.6	9159.6	9276.7	9548.8	9890.2	10510.6	10594.6	10079.4	10646.5	9435.9
60°	7124.2	7384.0	8237.5	9359.7	10648.8	11500.0	11812.9	11884.8	11085.4	11169.4	10186.6
62.5°	5056.7	5322.2	6404.5	8302.8	10665.3	13614.9	13753.1	13471.3	12193.2	11944.5	11481.1
65°	2684.2	2888.8	3773.3	5993.2	9247.0	14105.8	17146.0	16305.9	14147.9	13468.9	13153.9
67.5°	1373.1	1435.0	1786.5	2933.1	6356.9	12529.3	20187.5	20779.0	17516.5	14981.5	13073.3
69°	1215.0	1251.5	1484.8	2120.4	4070.7	10612.2	20335.7	22314.5	19279.9	14855.5	11880.4
70°	1176.3	1208.4	1420.6	1919.3	3181.7	8899.8	19768.6	22179.7	19730.9	14375.5	10989.2
72.5°	998.3	1026.0	1264.8	1695.9	2586.0	4417.9	16058.2	18794.5	17705.6	11975.5	7954.5
75°	667.8	758.3	1213.9	1589.8	2405.8	2509.7	10586.9	13581.7	12616.7	8077.2	4143.6
77.5°	160.3	172.5	342.8	1264.8	2200.0	2208.9	5444.8	8443.2	6886.5	2878.9	979.5
80°	86.2	83.0	96.2	250.9	2048.7	2072.8	2451.0	4098.2	2458.8	477.5	322.9
82.5°	60.8	57.5	62.0	105.0	644.5	1888.2	1773.3	1855.1	1019.3	183.6	144.8
85°	22.1	21.0	34.2	95.1	202.3	1085.6	1821.9	1530.2	825.8	84.0	106.1
87.5°	7.7	6.6	13.2	51.9	62.0	462.1	1124.4	1156.4	325.0	50.8	49.8
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: P269239

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL3-7027-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9	5088.9
2.5°	5043.5	4975.1	4849.1	4719.6	4600.2	4456.5	4384.6	4313.9	4284.0	4273.0	4221.0
5°	4897.6	4781.6	4514.1	4245.3	3997.6	3734.6	3561.1	3421.7	3339.9	3300.2	3237.1
7.5°	4710.8	4520.6	4114.9	3700.3	3314.4	2934.1	2652.2	2435.6	2286.2	2214.4	2149.3
10°	4529.4	4276.3	3699.2	3134.2	2610.3	2106.0	1716.9	1435.0	1254.8	1171.8	1118.7
12.5°	4366.9	4038.6	3297.9	2582.5	1924.8	1334.4	938.5	714.2	602.6	563.9	545.0
15°	4222.2	3819.8	2918.7	2058.6	1303.4	762.8	513.0	436.7	419.0	419.0	416.9
17.5°	4085.0	3605.2	2552.8	1566.6	818.0	466.5	390.3	380.3	380.3	384.7	384.7
20°	3953.5	3400.8	2199.0	1124.4	515.2	370.3	352.7	350.5	352.7	358.2	358.2
22.5°	3840.8	3214.9	1868.4	771.6	382.5	333.9	325.0	321.8	322.9	326.2	328.3
25°	3756.7	3058.0	1556.7	523.0	329.5	304.0	294.0	288.5	284.1	284.1	286.3
27.5°	3703.6	2925.3	1254.8	380.3	296.4	276.4	260.9	252.1	242.2	236.7	238.8
30°	3664.9	2799.3	971.7	310.6	265.3	245.4	225.6	211.1	196.8	190.1	192.3
32.5°	3650.5	2697.6	726.4	274.3	237.7	215.7	191.2	172.5	157.1	151.5	152.5
35°	3689.2	2616.9	531.7	247.7	215.7	187.9	160.3	139.2	127.1	123.8	125.0
37.5°	3790.9	2573.7	397.9	225.6	195.7	164.7	133.8	113.8	106.1	106.1	107.3
40°	3983.4	2572.7	319.4	210.1	178.0	142.7	110.5	96.2	91.7	94.0	95.1
42.5°	4264.2	2631.2	278.7	195.7	162.6	121.6	91.7	81.8	80.7	83.0	84.0
45°	4647.8	2738.5	256.5	183.6	146.0	101.7	77.3	70.7	70.7	74.1	75.2
47.5°	5117.6	2895.4	237.7	171.3	129.4	85.1	66.4	62.0	63.1	66.4	67.5
50°	5683.7	3093.4	218.8	158.1	117.1	70.7	57.5	54.2	55.2	59.6	60.8
52.5°	6328.2	3359.8	203.5	146.0	101.7	58.6	48.7	46.4	48.7	53.1	54.2
55°	6880.9	3598.6	184.6	136.0	81.8	48.7	39.9	39.9	42.0	47.5	48.7
57.5°	7412.8	3848.5	168.1	117.1	64.0	38.6	33.1	34.2	37.5	43.1	44.2
60°	8193.4	4271.9	148.1	98.5	48.7	30.9	27.7	28.7	33.1	38.6	39.9
62.5°	9518.9	4916.5	128.3	81.8	37.5	24.3	22.1	24.3	29.9	36.6	37.5
65°	10715.1	5178.4	105.0	68.5	28.7	18.8	18.8	22.1	28.7	35.4	36.6
67.5°	10048.4	4359.3	81.8	54.2	22.1	14.4	15.5	21.0	27.7	35.4	36.6
69°	8886.5	3564.4	69.7	43.1	18.8	13.2	14.4	21.0	27.7	34.2	35.4
70°	7981.0	3009.3	62.0	36.6	16.6	13.2	14.4	19.9	27.7	34.2	35.4
72.5°	5345.4	1625.2	49.8	26.5	15.5	12.1	12.1	19.9	26.5	33.1	34.2
75°	2297.3	448.9	39.9	18.8	13.2	11.0	11.0	18.8	25.4	32.1	34.2
77.5°	420.0	113.8	32.1	16.6	13.2	11.0	9.9	17.6	24.3	30.9	32.1
80°	166.9	56.4	25.4	14.4	12.1	9.9	8.9	16.6	23.3	29.9	30.9
82.5°	100.6	32.1	21.0	13.2	12.1	8.9	7.7	14.4	22.1	28.7	29.9
85°	81.8	22.1	16.6	13.2	11.0	8.9	6.6	13.2	19.9	27.7	28.7
87.5°	39.9	15.5	15.5	12.1	11.0	8.9	6.6	12.1	18.8	26.5	27.7
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)