

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: P269466

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL2-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23609.5 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

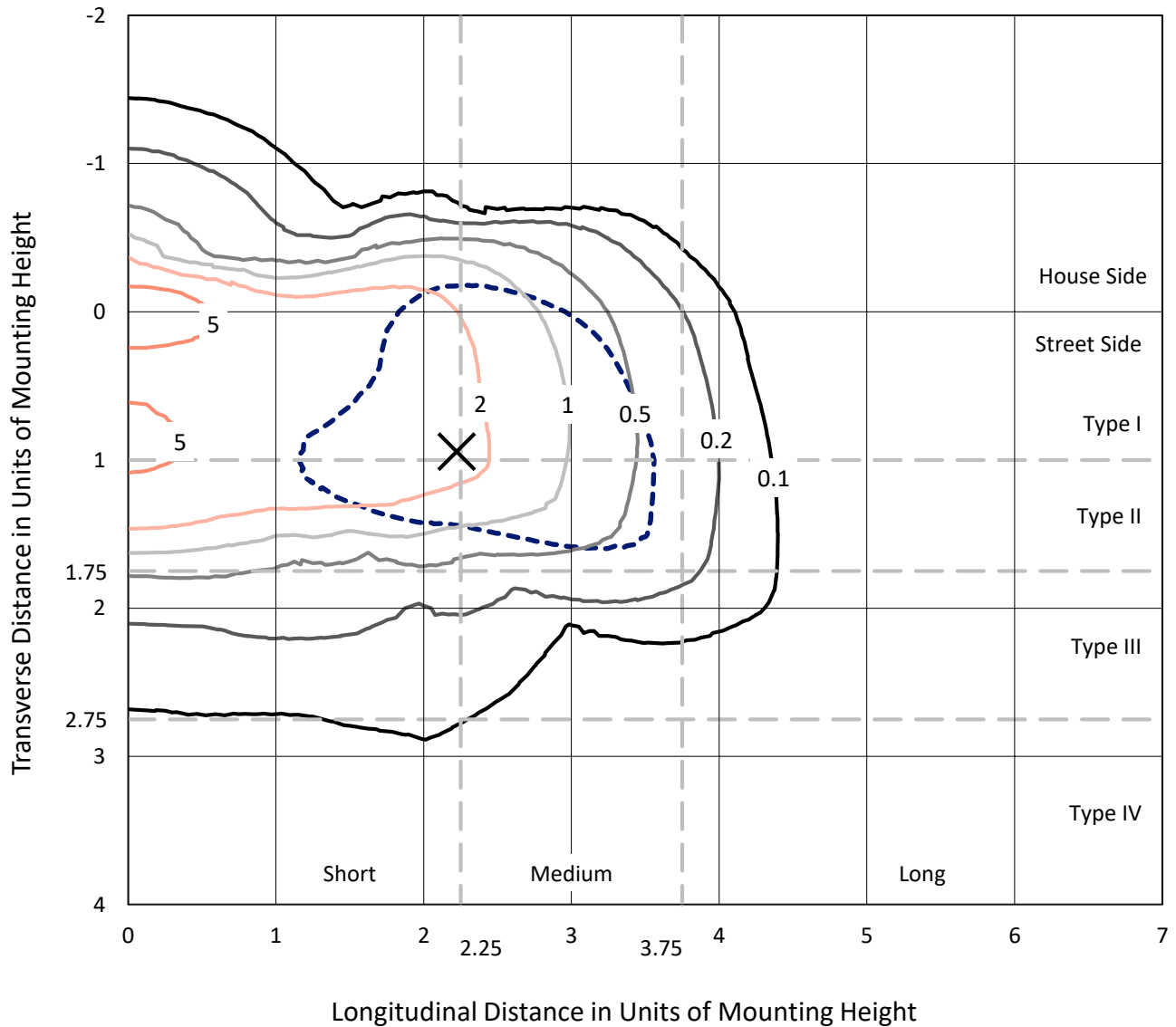
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

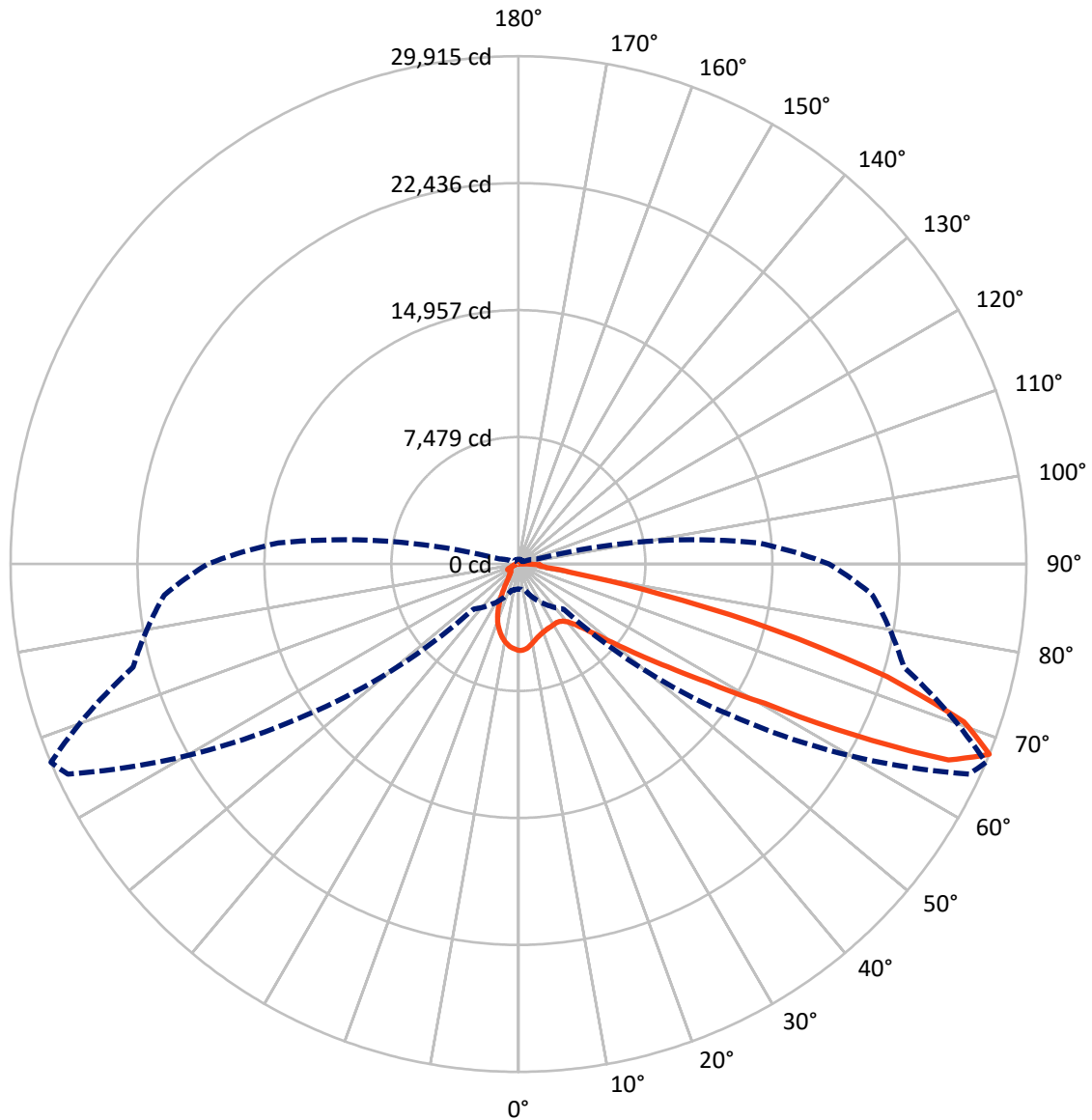
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3911.8	0.0	3911.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	19697.7	0.0	19697.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	23609.5	0.0	23609.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.5	1.8
10°-20°	1005.3	4.3
20°-30°	1362.7	5.8
30°-40°	1937.2	8.2
40°-50°	3241.0	13.7
50°-60°	5127.3	21.7
60°-70°	6531.6	27.7
70°-80°	3421.3	14.5
80°-90°	548.7	2.3
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°	23609.5	100.0
0°-180°	23609.5	100.0



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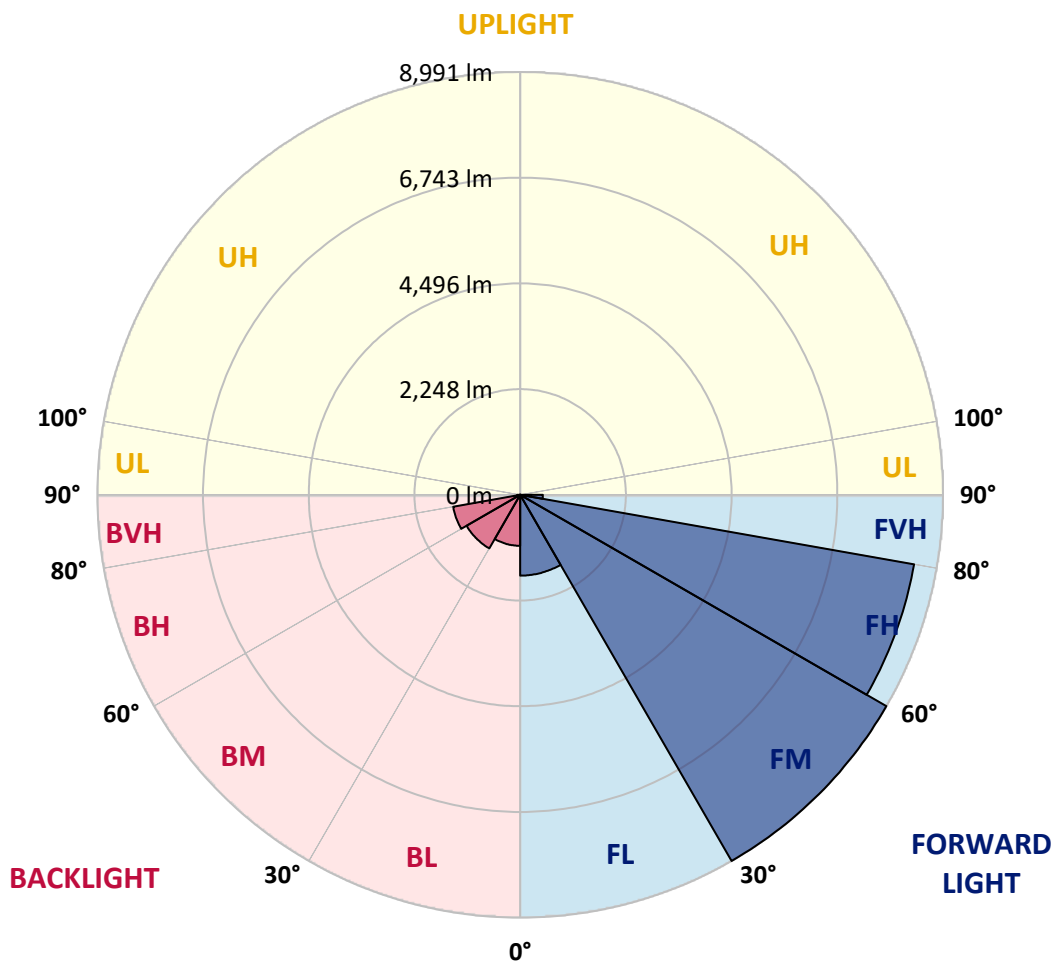
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.2	7.3			
FM (30°-60°)	8991.0	38.1			
FH (60°-80°)	8506.0	36.0			G4/12000
FVH (80°-90°)	482.5	2.0			G3/500
BL (0°-30°)	1084.3	4.6	B3/2500		
BM (30°-60°)	1314.5	5.6	B2/2500		
BH (60°-80°)	1446.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	66.2	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5
2.5°	4882.9	4891.1	4916.8	4933.0	5006.3	5037.9	5060.0	5082.0	5085.6	5096.1	5085.6
5°	4370.7	4388.1	4435.9	4489.4	4631.5	4743.2	4860.8	4983.1	5005.1	5084.3	5106.4
7.5°	3973.7	3969.0	4008.5	4072.6	4218.1	4372.9	4579.1	4822.5	4870.2	5048.3	5134.4
10°	3683.8	3680.3	3722.1	3788.5	3927.1	4073.8	4306.7	4639.7	4707.2	4991.3	5161.2
12.5°	3469.6	3470.7	3512.6	3585.9	3726.8	3874.7	4111.1	4462.6	4548.7	4924.9	5189.1
15°	3327.5	3336.8	3370.6	3448.6	3585.9	3733.8	3965.5	4329.9	4426.6	4872.4	5220.6
17.5°	3279.7	3295.0	3306.5	3363.6	3481.2	3629.1	3856.1	4232.2	4334.6	4836.4	5248.5
20°	3324.0	3341.4	3319.3	3339.1	3413.6	3544.1	3769.8	4155.3	4260.0	4795.6	5252.0
22.5°	3513.8	3530.1	3464.9	3407.8	3403.1	3482.3	3699.0	4094.7	4203.0	4765.4	5253.2
25°	3847.9	3858.4	3748.9	3616.2	3487.0	3460.2	3648.8	4052.9	4168.0	4738.6	5231.1
27.5°	4257.7	4266.0	4140.2	3944.5	3684.8	3512.6	3631.4	4028.4	4148.4	4715.4	5193.8
30°	4756.0	4794.4	4625.6	4378.8	4000.4	3667.4	3666.3	4015.6	4126.2	4675.7	5120.5
32.5°	5266.0	5282.4	5165.9	4915.5	4425.4	3939.8	3764.1	4024.9	4120.3	4628.0	5027.4
35°	5782.8	5803.9	5728.2	5526.8	5006.3	4339.3	3955.1	4079.7	4156.5	4611.7	4962.1
37.5°	6452.3	6480.4	6375.5	6142.7	5713.1	4880.6	4272.9	4217.1	4267.0	4658.3	4942.4
40°	7510.6	7498.0	7191.7	6844.7	6486.1	5573.4	4726.9	4449.8	4478.9	4808.4	5002.9
42.5°	8742.6	8711.0	8183.6	7638.7	7336.1	6411.7	5327.7	4853.8	4848.1	5104.2	5215.9
45°	9725.1	9699.4	9224.5	8552.8	8310.6	7366.3	6104.3	5455.8	5412.6	5573.4	5609.5
47.5°	10257.2	10258.4	9984.8	9436.4	9430.5	8579.5	7102.1	6326.7	6252.2	6327.8	6289.5
50°	10071.0	10095.4	10066.2	9891.6	10452.8	10169.9	8404.9	7541.0	7390.7	7465.4	7317.5
52.5°	9169.8	9201.2	9373.5	9641.2	10882.4	12092.2	10318.9	9049.9	8875.3	8848.5	8684.3
55°	7572.4	7610.8	7962.4	8690.2	10525.0	13383.3	13339.0	10973.2	10695.0	10442.3	10372.5
57.5°	5219.4	5283.4	5849.4	6929.7	9369.0	13773.4	16935.4	13715.1	13149.3	12266.7	12283.1
60°	2942.0	3016.6	3683.8	4665.3	7035.6	13349.5	19671.5	17868.0	16673.5	14403.2	14524.2
62.5°	1871.0	1951.3	2457.8	3241.4	4221.7	11067.6	20792.7	23641.7	22124.6	17036.7	17155.6
65°	1514.7	1549.7	1788.3	2675.5	3065.6	6667.8	19941.7	28397.7	27831.8	20379.4	19825.2
67.5°	1478.6	1490.3	1613.6	2245.9	2939.9	3747.8	15906.3	29287.3	29914.7	23500.7	20937.1
70°	1461.2	1501.8	1818.6	2143.4	2815.2	3161.0	9558.7	26849.3	27840.0	24316.9	19457.3
72.5°	709.0	706.6	915.2	1938.5	3171.5	3278.5	4910.9	21724.2	22718.5	21067.5	15988.9
75°	571.6	522.8	499.5	710.2	3049.2	3385.7	3129.5	14948.1	15667.6	14124.9	9828.7
77.5°	542.5	484.4	443.7	444.8	1288.9	3590.6	2651.1	8273.3	8482.9	6380.2	2692.9
80°	449.4	395.9	366.8	413.3	624.1	3419.5	2866.4	3744.2	3435.7	1567.2	896.5
82.5°	312.0	284.0	275.9	346.9	499.5	2436.8	3333.3	2011.8	1687.0	784.7	553.0
85°	199.1	170.0	188.6	252.7	388.8	1124.7	3433.4	1568.4	1246.9	498.3	312.0
87.5°	91.9	74.5	93.2	139.6	253.9	387.7	3267.0	1761.5	1284.1	263.2	196.8
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°	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5	5092.5
2.5°	5094.8	5072.6	5055.2	5022.7	4986.6	4951.6	4920.1	4880.6	4869.0	4858.6	4874.8
5°	5111.1	5089.0	5024.9	4924.9	4814.2	4710.6	4607.0	4518.6	4463.8	4433.6	4451.0
7.5°	5135.6	5104.2	4971.4	4787.4	4588.5	4406.7	4219.2	4069.1	3958.6	3906.1	3921.2
10°	5157.7	5097.2	4880.6	4604.7	4313.7	4043.5	3747.8	3503.3	3321.7	3226.3	3249.4
12.5°	5167.1	5070.5	4753.7	4376.5	3977.2	3581.4	3145.9	2780.3	2519.4	2423.9	2404.3
15°	5176.4	5040.1	4614.1	4116.8	3570.9	3010.8	2400.7	1962.9	1746.5	1698.7	1688.2
17.5°	5178.6	4987.7	4455.7	3835.1	3094.7	2332.0	1641.7	1363.4	1364.5	1441.4	1450.8
20°	5154.3	4909.7	4263.5	3484.6	2524.1	1612.5	1127.1	1079.3	1255.1	1447.2	1470.4
22.5°	5098.3	4806.1	4045.8	3075.9	1871.0	1061.7	872.1	924.4	1151.4	1386.7	1413.5
25°	5027.4	4680.3	3788.5	2602.1	1238.9	759.1	731.2	795.2	948.9	1106.1	1121.2
27.5°	4930.6	4531.3	3499.7	2059.6	804.5	625.2	643.8	686.9	749.7	819.7	826.6
30°	4806.1	4353.1	3191.3	1501.8	607.8	562.3	589.1	612.5	639.1	678.8	682.3
32.5°	4662.9	4182.1	2874.5	1037.4	539.1	529.7	550.8	562.3	583.3	607.8	610.0
35°	4543.0	4019.0	2546.2	733.5	510.0	505.2	519.3	523.9	543.7	570.6	572.8
37.5°	4474.3	3886.3	2207.4	591.4	490.1	483.2	491.4	491.4	519.3	558.8	564.7
40°	4478.9	3812.9	1868.7	534.4	473.9	464.6	465.7	465.7	501.9	544.9	548.3
42.5°	4605.9	3831.6	1568.4	512.3	461.1	450.6	444.8	448.3	478.4	506.5	508.8
45°	4903.8	3963.2	1286.6	498.3	448.3	444.8	431.9	430.7	442.4	455.3	455.3
47.5°	5393.0	4222.8	1095.6	488.9	437.7	436.5	421.5	406.4	405.1	409.8	409.8
50°	6188.2	4669.8	967.6	478.4	430.7	421.5	404.0	380.7	372.5	376.1	376.1
52.5°	7380.4	5467.4	918.5	464.6	415.6	400.6	380.7	357.4	350.5	351.5	351.5
55°	8944.0	6692.3	911.6	448.3	399.3	375.0	358.7	341.1	333.0	335.2	335.2
57.5°	10854.5	8386.2	1036.3	422.7	377.2	349.4	340.0	328.3	322.5	325.9	324.8
60°	13177.1	10603.1	1536.8	395.9	355.1	325.9	325.9	316.7	312.0	315.6	314.3
62.5°	15852.7	13149.3	2161.0	376.1	331.8	307.4	312.0	307.4	302.6	305.1	303.8
65°	18225.5	14808.4	2023.5	360.8	308.6	290.0	298.1	295.7	292.2	294.6	293.3
67.5°	18294.3	14193.6	1136.4	344.6	286.4	272.5	284.0	283.0	280.6	283.0	281.8
70°	16326.5	11984.9	640.3	314.3	263.2	251.4	267.8	266.5	264.3	269.0	267.8
72.5°	13080.6	8697.1	468.0	277.0	239.8	229.3	248.0	246.9	246.9	253.9	250.3
75°	7527.0	4475.4	373.8	237.5	215.5	207.2	223.6	224.7	227.0	236.3	229.3
77.5°	2145.7	1394.8	305.1	201.4	185.1	181.6	197.9	200.2	201.4	211.9	202.6
80°	797.5	642.6	251.4	168.8	151.4	152.5	167.7	171.1	172.4	182.7	171.1
82.5°	508.8	423.8	203.7	130.4	118.8	117.6	136.3	140.9	140.9	142.0	135.0
85°	296.9	253.9	153.7	94.3	83.8	80.4	101.2	109.5	105.9	103.7	99.0
87.5°	199.1	174.6	94.3	52.5	45.5	43.1	59.4	65.1	62.9	59.4	55.9
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)