

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: P190980

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190980
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-02-LED-E1-AFL-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14020.6 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

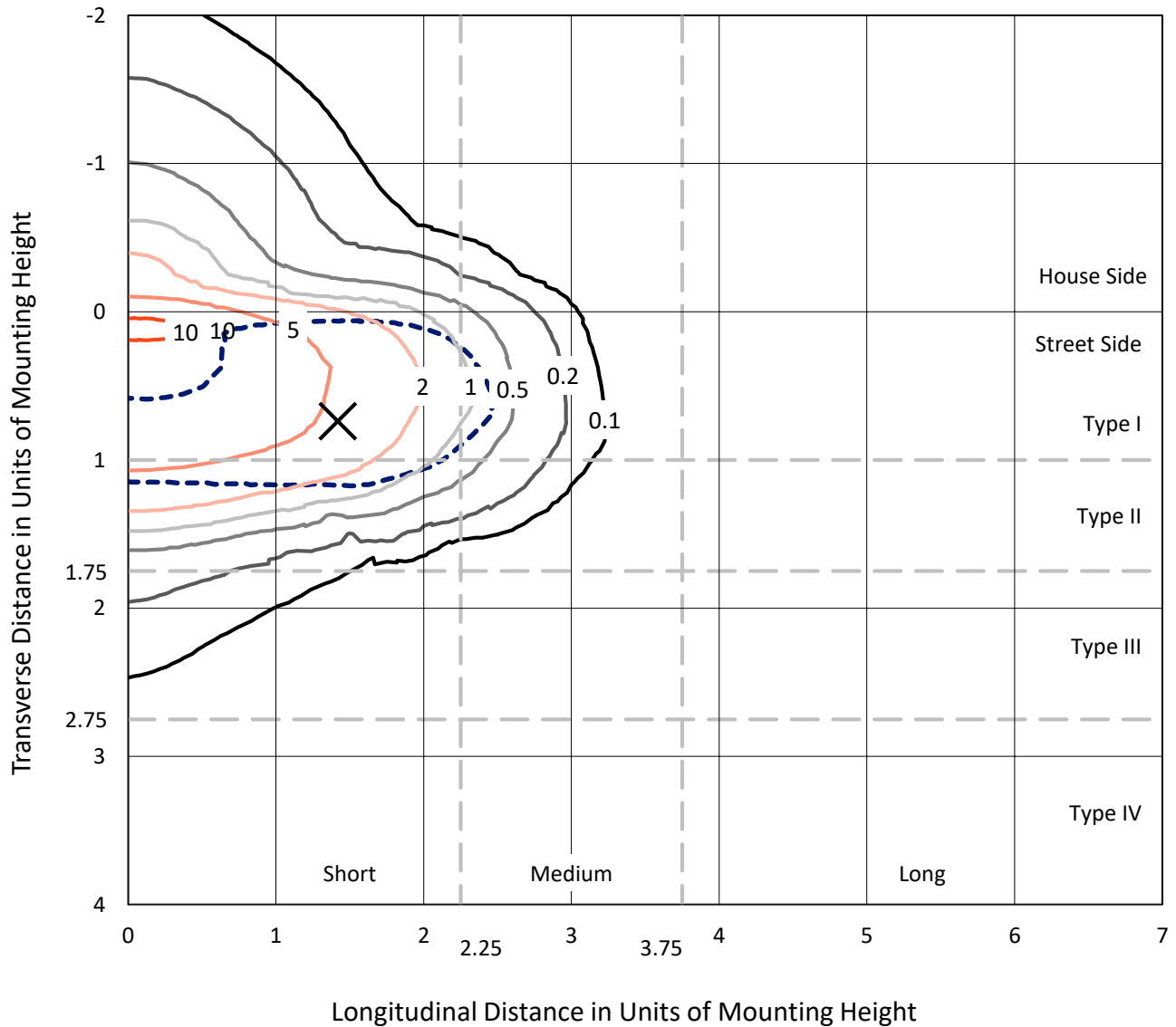
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

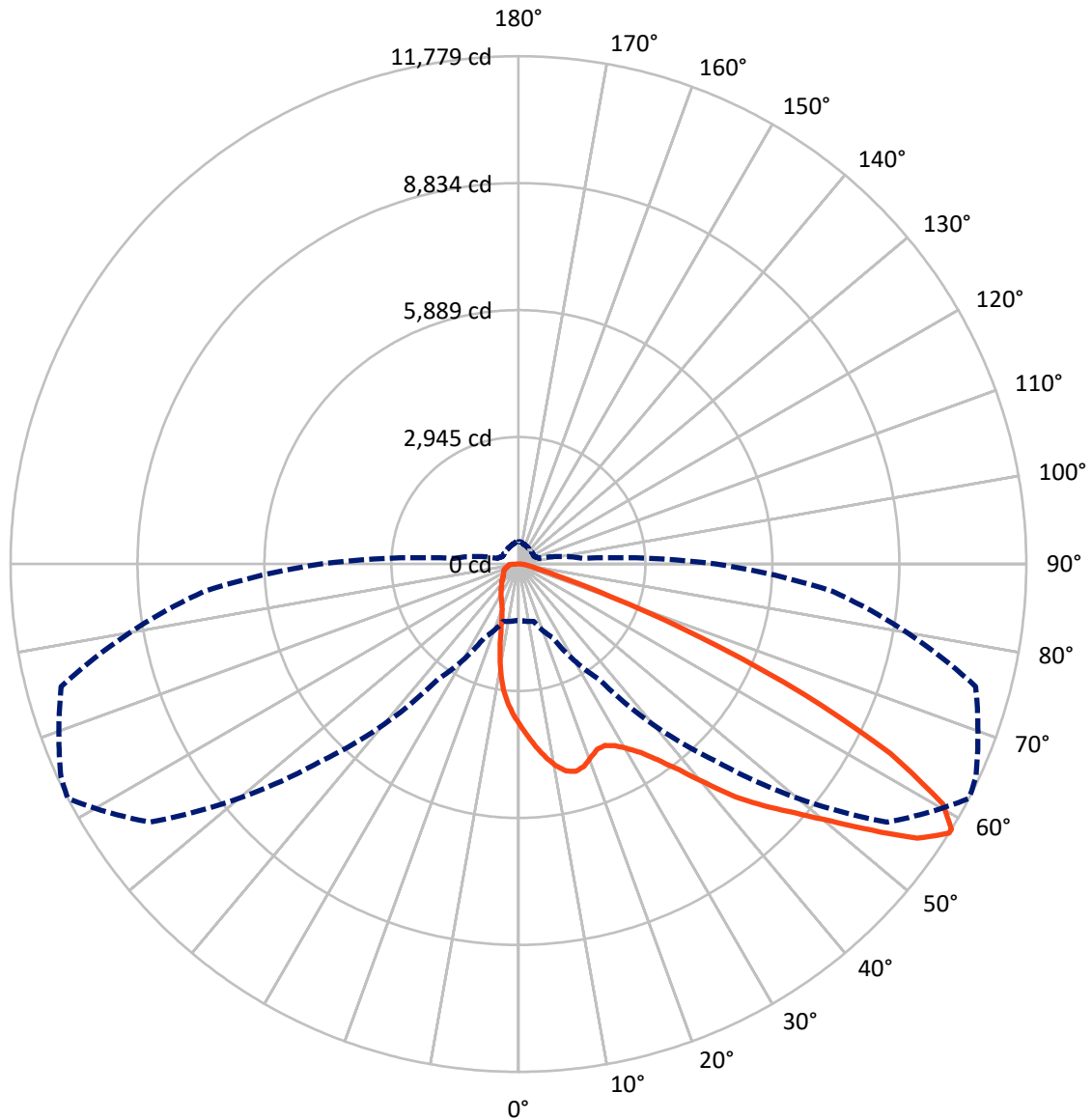
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 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	2138.2	0.0	2138.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11882.4	0.0	11882.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	14020.6	0.0	14020.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.1	2.4
10°-20°	851.4	6.1
20°-30°	1376.3	9.8
30°-40°	2184.9	15.6
40°-50°	3197.0	22.8
50°-60°	3343.8	23.8
60°-70°	1975.5	14.1
70°-80°	556.5	4.0
80°-90°	202.0	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°	14020.6	100.0
0°-180°	14020.6	100.0



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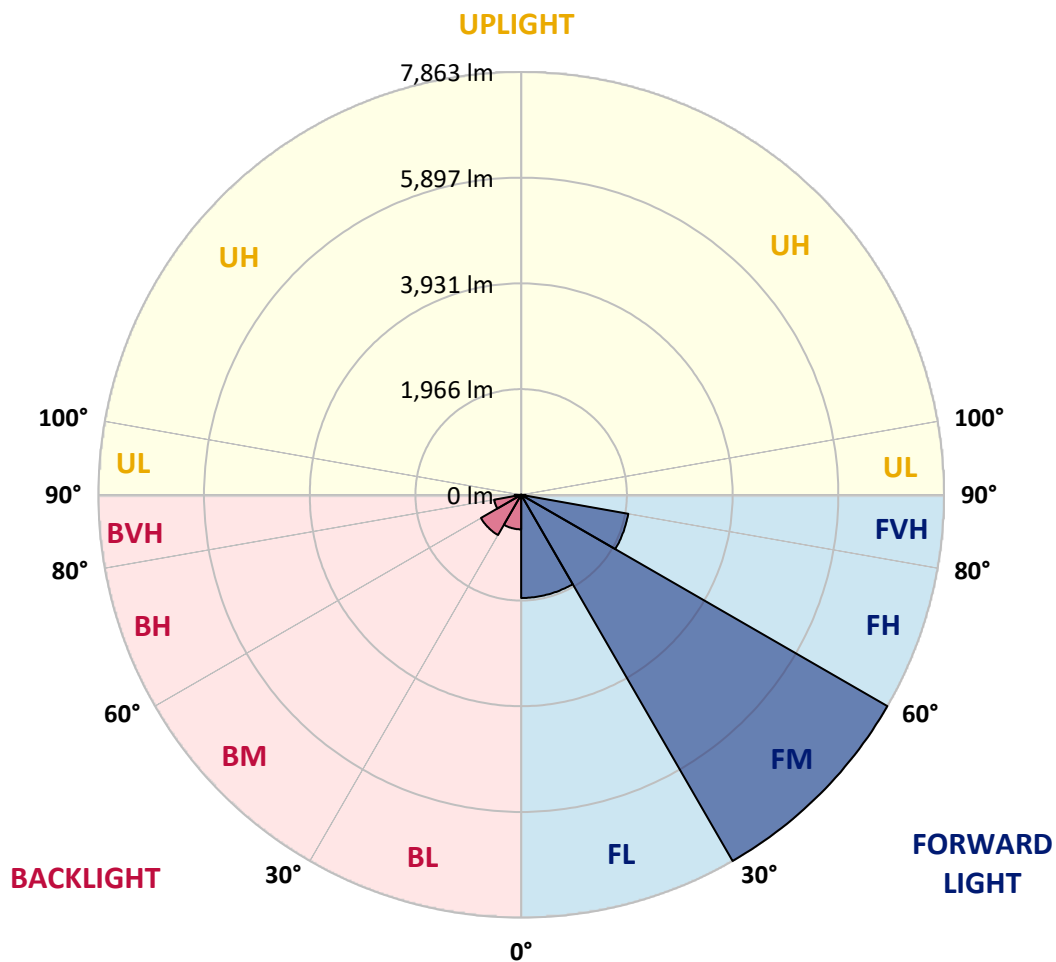
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1918.2	13.7			
FM	(30°-60°)	7862.7	56.1			
FH	(60°-80°)	2021.8	14.4			G2/5000
FVH	(80°-90°)	79.7	0.6			G1/100
BL	(0°-30°)	642.6	4.6	B2/1000		
BM	(30°-60°)	863.0	6.2	B1/1000		
BH	(60°-80°)	510.2	3.6	B2/1000		G2/1000
BVH	(80°-90°)	122.3	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°	3724.3	3724.3	3724.3	3724.3	3724.3	3724.3	3724.3	3724.3	3724.3	3724.3	3724.3
2.5°	4255.8	4221.4	4199.6	4180.5	4155.4	4101.9	4029.9	3984.4	3961.3	3882.7	3789.6
5°	4673.0	4642.7	4620.2	4594.5	4549.6	4465.7	4349.5	4257.1	4211.5	4054.4	3868.2
7.5°	4575.2	4587.8	4626.8	4694.8	4752.9	4741.7	4638.1	4520.5	4460.4	4241.9	3959.3
10°	3986.3	4008.1	4075.5	4234.6	4492.1	4756.2	4836.7	4755.5	4694.8	4427.4	4053.0
12.5°	3868.2	3867.6	3872.8	3915.0	4068.3	4439.9	4843.4	4925.2	4888.9	4604.3	4148.8
15°	3916.4	3917.7	3913.8	3931.6	3979.1	4126.4	4641.3	4990.6	5016.3	4782.6	4247.8
17.5°	4043.1	4039.8	4024.7	4024.7	4041.9	4099.3	4403.6	4929.8	5048.7	4940.4	4335.0
20°	4255.8	4240.5	4200.3	4163.3	4144.8	4175.9	4305.9	4789.9	4992.5	5078.3	4407.0
22.5°	4513.3	4501.4	4436.0	4356.7	4292.7	4292.1	4356.1	4667.7	4895.5	5208.5	4467.6
25°	4846.0	4826.8	4729.8	4603.1	4490.8	4447.9	4465.7	4661.8	4842.6	5349.7	4521.9
27.5°	5236.8	5201.8	5086.9	4904.1	4739.0	4652.6	4626.8	4769.4	4890.8	5524.7	4597.0
30°	5710.8	5670.6	5523.3	5285.1	5051.9	4910.1	4855.2	4960.2	5050.6	5737.9	4718.0
32.5°	6250.2	6192.1	6021.8	5759.1	5452.7	5236.2	5147.1	5212.4	5284.4	5994.8	4869.0
35°	6995.7	6926.3	6680.1	6317.6	5971.7	5673.9	5531.3	5578.9	5648.8	6377.7	5087.6
37.5°	7504.1	7473.0	7309.3	6968.5	6592.3	6249.6	6029.1	6056.8	6096.5	6856.3	5367.5
40°	7499.4	7511.9	7515.2	7518.6	7262.3	6934.3	6697.3	6668.2	6660.2	7381.9	5685.8
42.5°	7123.7	7175.2	7341.6	7679.0	7834.8	7684.2	7467.0	7383.1	7341.6	8001.1	6023.1
45°	6548.7	6576.4	6888.0	7546.9	8128.0	8427.0	8262.6	7998.6	7923.3	8570.3	6303.1
47.5°	6252.3	6282.7	6478.7	7197.0	8124.6	9027.1	9122.2	8619.1	8484.5	9065.4	6544.7
50°	5546.4	5609.9	5856.8	6588.3	7828.1	9303.1	10020.7	9358.6	9079.9	9547.4	6787.0
52.5°	4250.5	4348.2	4624.8	5587.4	7076.2	9166.5	10739.8	10255.1	9861.7	10046.5	6994.9
55°	2681.2	2753.8	2986.2	3946.1	5660.7	8455.4	11012.4	11224.9	10875.1	10519.2	7175.2
57.5°	1457.8	1490.1	1577.3	2178.7	3682.0	6883.4	10615.0	11776.9	11631.7	10920.6	7311.2
58°	1304.6	1326.4	1380.5	1888.3	3265.5	6453.6	10438.7	11778.9	11706.2	10979.4	7321.8
60°	967.9	956.7	908.5	1077.5	1817.6	4458.4	9373.1	11307.5	11520.8	11051.3	7270.3
62.5°	850.4	823.3	725.0	713.7	884.0	2053.9	7171.9	9686.0	10189.8	10640.7	6957.4
65°	798.8	769.8	643.0	602.1	637.8	868.9	4224.7	7264.4	7896.2	9395.5	6157.1
67.5°	760.6	722.9	590.9	534.8	537.5	574.4	1693.5	4575.2	5286.3	7133.6	4789.3
70°	723.6	682.6	546.7	481.9	466.8	454.2	673.4	2290.3	2935.4	4506.0	3053.5
72.5°	683.9	643.7	507.7	440.4	410.6	369.1	439.7	936.8	1308.6	2131.8	1385.2
75°	626.6	590.2	468.7	403.3	361.1	305.7	332.0	489.2	587.0	849.0	667.5
77.5°	555.9	526.2	425.1	373.1	320.2	248.3	255.5	339.3	376.3	485.9	396.8
80°	399.5	410.0	378.3	335.4	285.2	201.3	196.1	247.6	267.4	312.3	258.2
82.5°	280.6	286.5	312.9	273.9	235.7	158.5	144.5	174.3	186.2	205.3	139.3
85°	193.4	186.8	214.6	190.8	170.3	105.7	99.0	118.2	125.4	127.5	71.9
87.5°	116.2	116.2	124.1	102.3	91.8	54.8	53.5	67.3	71.9	68.6	39.6
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°	3724.3	3724.3	3724.3	3724.3	3724.3	3724.3	3724.3	3724.3	3724.3	3724.3	3724.3
2.5°	3734.2	3687.3	3587.6	3507.7	3406.7	3301.8	3243.0	3180.3	3137.4	3106.3	3155.8
5°	3762.6	3666.9	3460.8	3265.5	3049.5	2825.1	2654.8	2496.3	2386.0	2317.4	2382.0
7.5°	3807.4	3660.2	3332.2	2998.1	2610.5	2236.8	1902.8	1693.5	1571.4	1511.2	1548.8
10°	3859.0	3649.7	3181.0	2635.5	2081.0	1610.2	1360.7	1276.2	1248.5	1237.3	1242.5
12.5°	3901.8	3627.2	2995.4	2197.2	1562.8	1271.5	1199.6	1197.7	1203.6	1204.9	1206.9
15°	3932.2	3594.2	2720.1	1740.3	1249.7	1158.7	1154.7	1166.6	1177.8	1182.4	1185.1
17.5°	3952.7	3526.2	2409.2	1375.9	1119.7	1103.9	1113.1	1128.3	1140.2	1143.5	1146.1
20°	3950.7	3426.5	2038.7	1147.4	1049.0	1049.0	1064.9	1076.9	1077.5	1073.5	1075.5
22.5°	3930.3	3289.8	1679.6	1026.0	986.3	997.6	1013.4	1002.2	955.9	925.7	927.6
25°	3895.9	3126.8	1371.9	948.7	928.2	948.1	943.5	859.0	792.9	763.2	763.2
27.5°	3865.5	2934.0	1135.6	881.4	870.1	894.6	812.7	736.1	708.4	694.6	689.9
30°	3843.7	2726.1	977.7	816.7	815.4	797.5	705.1	683.9	679.3	668.1	664.2
32.5°	3849.1	2515.4	876.8	760.0	764.6	682.6	653.6	658.3	654.3	642.4	637.1
35°	3892.6	2315.3	810.8	708.4	694.6	616.6	623.3	631.9	630.5	614.0	608.8
37.5°	3970.6	2125.9	767.2	665.5	606.1	583.6	594.2	607.4	604.1	592.9	588.9
40°	4052.4	1947.6	731.5	631.9	553.9	561.2	570.4	577.7	581.0	584.3	581.6
42.5°	4132.3	1761.4	687.9	597.5	532.1	540.0	544.0	551.3	569.1	581.6	581.0
45°	4179.8	1586.5	643.0	548.6	515.0	519.6	517.0	531.4	553.2	573.8	574.4
47.5°	4232.7	1450.5	607.4	503.7	498.5	501.8	493.9	508.4	528.1	553.2	555.9
50°	4296.7	1369.3	579.0	468.1	476.0	476.0	474.0	487.2	515.0	544.0	549.3
52.5°	4369.3	1353.5	555.3	442.3	453.6	452.9	454.9	474.6	505.0	533.5	538.1
55°	4457.8	1396.3	529.5	423.2	431.8	434.4	441.0	463.5	489.2	521.6	523.5
57.5°	4560.7	1483.5	509.0	408.1	411.9	420.5	431.1	451.6	479.4	515.0	517.0
58°	4577.9	1502.0	505.7	406.7	408.1	417.9	429.8	449.6	477.3	516.3	518.2
60°	4578.6	1563.4	498.5	400.8	392.8	409.4	422.6	442.3	474.0	520.9	525.5
62.5°	4416.2	1562.8	493.2	392.2	377.0	397.4	412.7	435.8	470.8	532.1	541.3
65°	3888.6	1420.2	468.1	379.0	364.5	386.9	404.1	431.1	480.0	581.0	587.0
67.5°	3041.6	1163.9	421.3	360.5	347.9	376.3	398.7	430.5	489.9	592.2	596.2
70°	2011.0	870.8	369.7	339.3	330.7	363.8	401.4	452.9	478.6	568.5	557.9
72.5°	1043.8	611.3	328.2	312.9	311.0	352.5	439.7	450.3	467.4	534.8	521.6
75°	548.0	424.5	291.8	283.9	287.2	350.0	518.9	438.3	452.9	511.7	536.7
77.5°	335.4	342.7	260.8	257.5	264.1	342.0	518.2	423.2	431.8	470.8	498.5
80°	224.4	277.9	237.0	237.6	242.3	312.9	465.4	399.5	406.0	445.0	473.4
82.5°	142.0	164.4	215.2	226.5	220.5	258.2	395.5	363.8	373.1	509.0	538.1
85°	71.9	103.0	186.8	217.9	198.8	180.9	320.9	318.9	323.5	367.0	383.6
87.5°	33.0	56.8	145.9	190.2	149.9	112.9	233.0	236.4	254.8	260.8	260.8
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)