

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: P193777

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL4-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27186 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 290
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

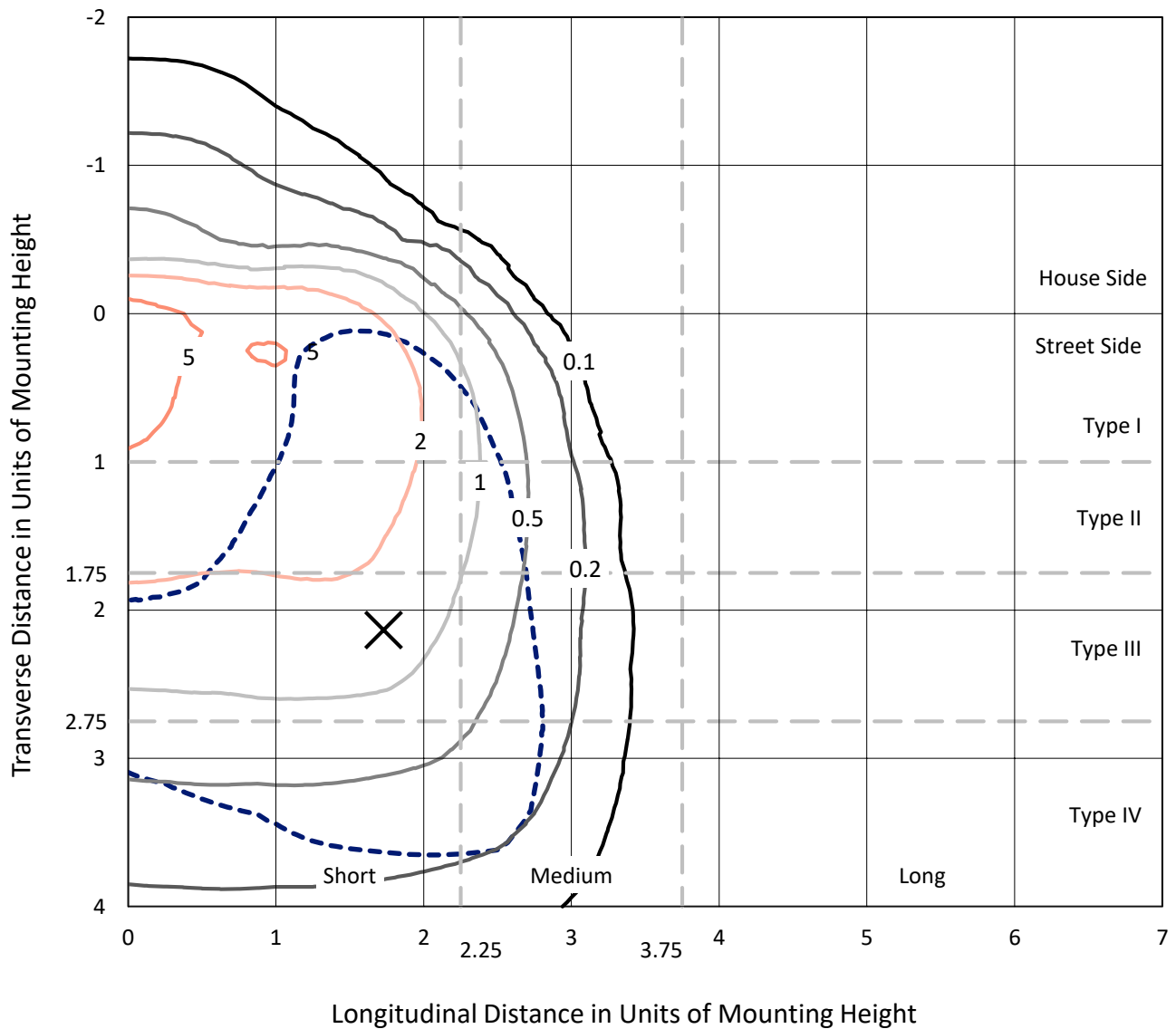


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

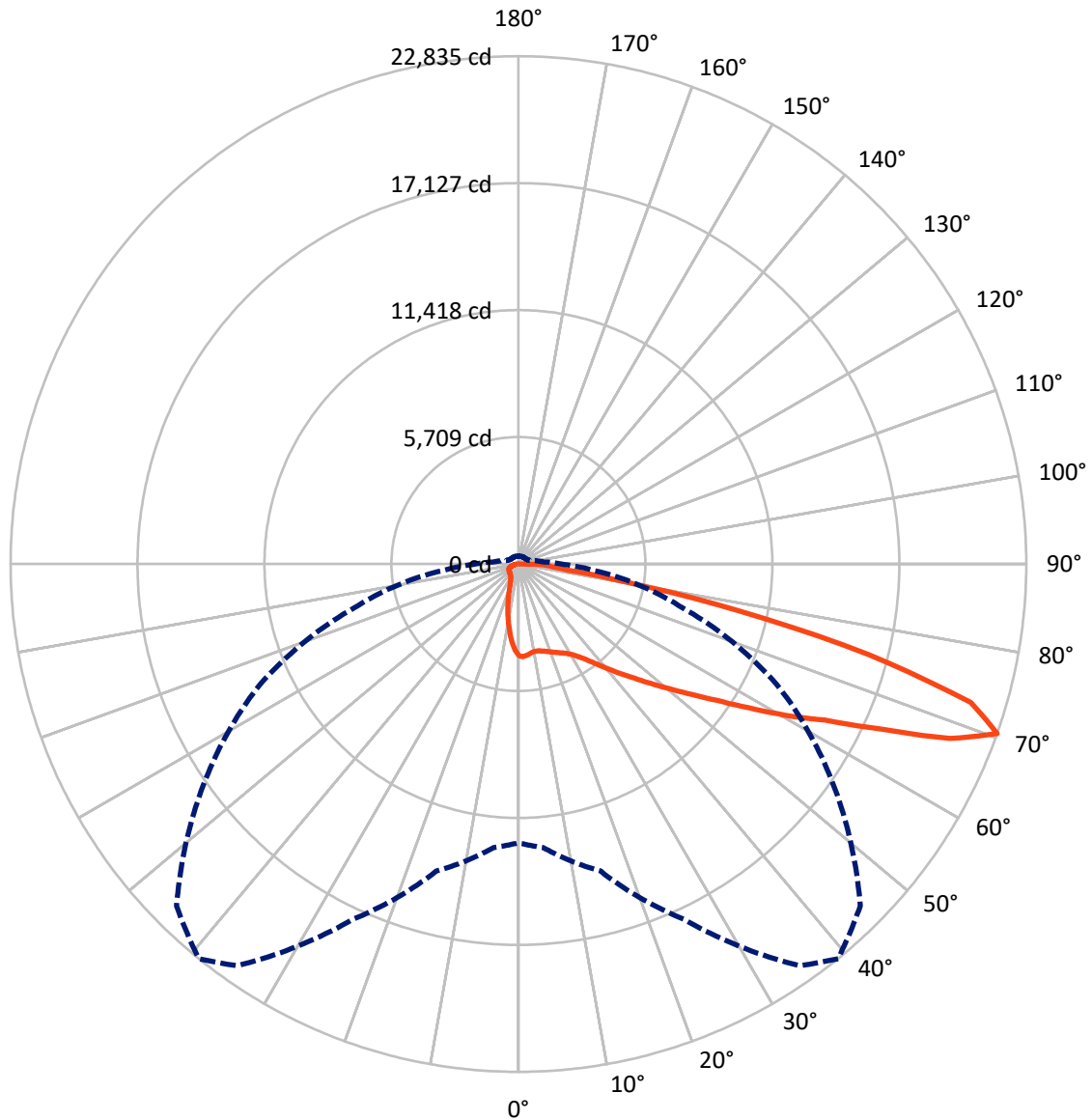


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3092.0	0.0	3092.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	24094.0	0.0	24094.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	27186.0	0.0	27186.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.2	1.3
10°-20°	885.4	3.3
20°-30°	1378.5	5.1
30°-40°	2147.5	7.9
40°-50°	3605.3	13.3
50°-60°	5727.3	21.1
60°-70°	7639.6	28.1
70°-80°	4613.3	17.0
80°-90°	835.0	3.1
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°	27186.0	100.0
0°-180°	27186.0	100.0



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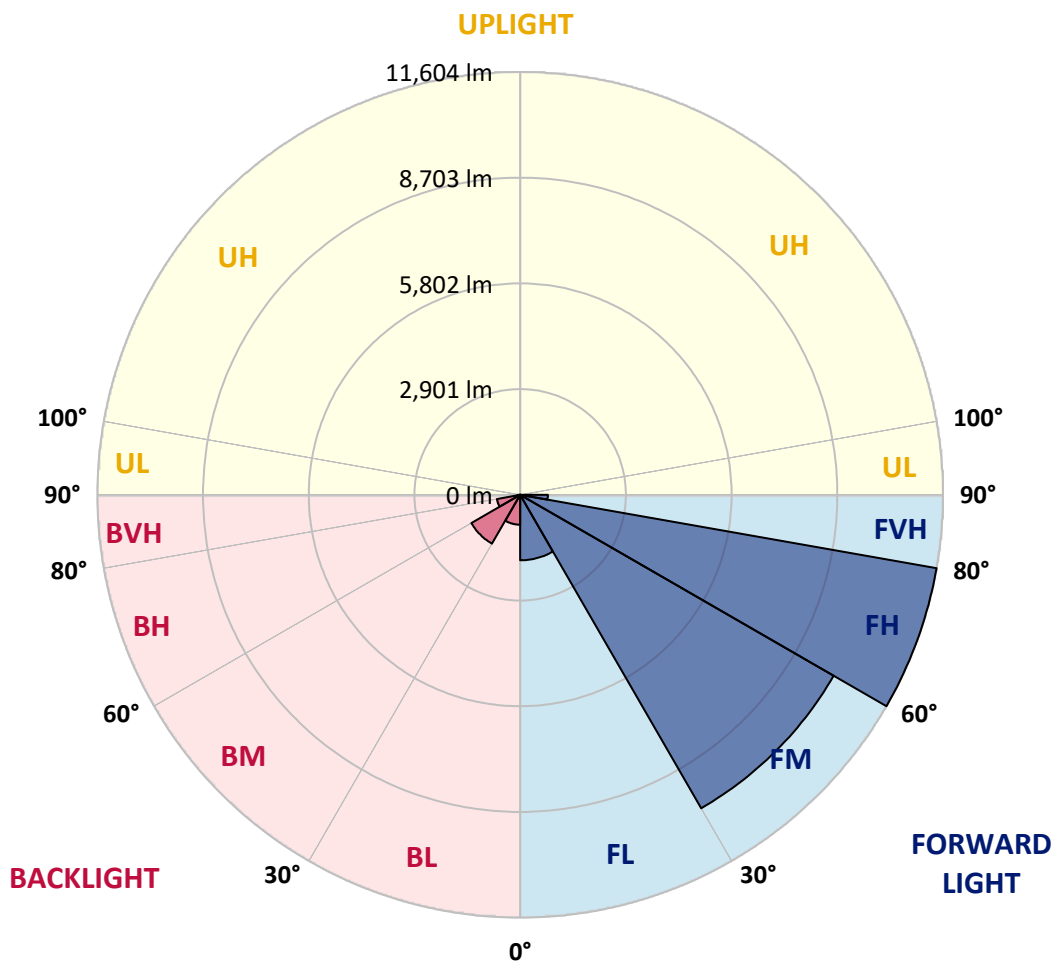
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1797.8	6.6			
FM	(30°-60°)	9932.7	36.5			
FH	(60°-80°)	11603.8	42.7			G4/12000
FVH	(80°-90°)	759.7	2.8			G5
BL	(0°-30°)	820.2	3.0	B2/1000		
BM	(30°-60°)	1547.3	5.7	B2/2500		
BH	(60°-80°)	649.1	2.4	B2/1000		G2/1000
BVH	(80°-90°)	75.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4127.3	4127.3	4127.3	4127.3	4127.3	4127.3	4127.3	4127.3	4127.3	4127.3	4127.3
2.5°	4207.4	4206.0	4195.0	4186.7	4179.8	4177.0	4182.5	4161.8	4143.8	4121.7	4098.2
5°	4175.6	4174.3	4156.3	4139.7	4123.1	4117.6	4116.2	4078.9	4056.8	4023.6	3979.4
7.5°	4141.1	4134.2	4110.7	4083.0	4054.0	4040.2	4026.4	3978.0	3953.1	3919.9	3868.8
10°	4105.1	4096.8	4074.7	4047.1	4019.4	3998.7	3975.2	3928.2	3902.0	3877.1	3817.6
12.5°	4067.8	4060.9	4055.4	4042.9	4023.6	4005.6	3987.7	3947.6	3919.9	3890.9	3821.8
15°	4062.3	4059.5	4072.0	4080.3	4069.2	4058.1	4038.8	4004.2	3975.2	3946.2	3856.3
17.5°	4106.5	4105.1	4136.9	4159.0	4153.5	4134.2	4107.9	4069.2	4045.7	4020.8	3908.9
20°	4203.3	4210.2	4248.9	4277.9	4250.3	4222.6	4179.8	4125.9	4113.4	4102.4	3962.8
22.5°	4385.7	4392.6	4420.3	4431.3	4359.5	4319.4	4259.9	4190.8	4182.5	4190.8	4027.7
25°	4670.5	4663.6	4659.4	4617.9	4486.6	4424.4	4348.4	4276.5	4280.7	4318.0	4119.0
27.5°	5047.8	5010.5	4952.4	4828.0	4619.3	4550.2	4457.6	4391.3	4417.5	4489.4	4255.8
30°	5439.0	5397.5	5263.4	5060.2	4793.5	4717.5	4613.8	4539.2	4608.3	4721.6	4438.3
32.5°	5801.1	5795.6	5599.3	5338.1	5034.0	4967.6	4864.0	4779.7	4891.6	5064.4	4711.9
35°	6196.4	6208.9	5973.9	5660.1	5358.8	5289.7	5215.0	5151.5	5300.7	5538.5	5108.6
37.5°	6619.4	6644.2	6366.4	6012.6	5729.2	5700.2	5656.0	5628.3	5859.2	6188.1	5662.9
40°	7184.7	7159.8	6774.2	6410.7	6184.0	6182.6	6168.8	6201.9	6586.2	7036.8	6374.7
42.5°	7790.1	7716.8	7206.8	6837.8	6682.9	6729.9	6757.6	6893.0	7461.1	8067.9	7242.7
45°	8442.5	8278.0	7656.0	7289.7	7237.2	7336.7	7430.7	7725.1	8490.9	9241.4	8193.7
47.5°	8963.6	8804.6	8120.4	7763.8	7878.6	8029.2	8210.3	8676.1	9643.6	10453.6	9132.2
50°	9374.1	9270.4	8589.0	8316.7	8584.9	8817.1	9112.9	9752.8	10843.4	11634.0	10001.6
52.5°	9772.2	9694.8	9061.7	8883.4	9414.2	9734.9	10137.1	10908.3	12073.5	12795.0	10732.8
55°	10131.5	10076.3	9570.4	9589.7	10390.0	10807.4	11313.3	12224.2	13414.3	13830.3	11352.0
57.5°	10536.5	10466.0	10150.9	10475.7	11643.7	12185.5	12843.4	13703.2	14672.1	14750.9	11823.4
60°	10944.3	10883.5	10795.0	11498.5	13236.0	13805.4	14428.8	15136.5	15947.9	15465.5	11795.7
62.5°	11298.1	11305.0	11461.2	12572.5	14795.1	15454.4	16214.6	16914.0	17102.0	15589.9	10923.5
65°	11898.0	12007.2	12473.0	14092.9	16990.0	17871.9	18804.9	18692.9	17421.3	14427.4	9053.4
67.5°	12611.2	12803.3	13747.4	16119.2	19764.1	20934.8	21295.6	19095.1	16142.7	11728.0	6453.5
70°	12539.3	12803.3	14297.5	17630.0	22050.3	22835.4	21740.7	17281.7	12818.5	7661.5	3427.9
72.5°	11135.0	11512.4	13176.5	16937.5	21330.1	21261.0	18874.0	12883.5	7615.9	3076.8	1339.4
75°	8486.7	8868.2	10300.2	13381.1	16858.7	16278.2	13392.2	7117.0	2890.2	1221.9	844.5
77.5°	4881.9	5177.7	6283.5	8206.1	10695.5	10099.8	7454.2	3165.2	1407.1	851.4	659.3
80°	2725.7	2890.2	3561.9	4163.2	5241.3	4804.5	3335.3	1966.9	1050.5	617.8	508.7
82.5°	2154.9	2301.4	2880.5	2626.2	2394.0	2208.8	1915.7	1751.3	839.0	389.8	304.1
85°	1882.6	2022.2	2438.2	2067.8	1635.1	1499.7	1556.4	1723.6	652.4	235.0	259.9
87.5°	1744.3	1930.9	2172.8	1593.7	1273.0	1127.9	1436.1	1889.5	210.1	146.5	105.0
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°	4127.3	4127.3	4127.3	4127.3	4127.3	4127.3	4127.3	4127.3	4127.3	4127.3	4127.3
2.5°	4077.5	4055.4	4019.4	3987.7	3937.9	3911.6	3882.6	3861.9	3845.3	3831.5	3853.6
5°	3951.7	3910.3	3834.2	3752.7	3655.9	3579.9	3516.3	3456.9	3415.4	3387.8	3407.1
7.5°	3832.8	3765.1	3646.2	3498.4	3332.5	3191.5	3075.4	2973.1	2902.6	2857.0	2875.0
10°	3765.1	3680.8	3497.0	3264.8	3020.1	2800.3	2617.9	2460.3	2351.1	2288.9	2298.6
12.5°	3748.5	3639.3	3385.0	3065.7	2731.2	2425.8	2168.7	1950.3	1796.9	1716.7	1719.5
15°	3761.0	3621.4	3280.0	2875.0	2452.0	2066.4	1745.7	1480.3	1302.0	1210.8	1209.4
17.5°	3781.7	3607.5	3169.4	2669.0	2168.7	1720.8	1362.9	1103.0	945.4	872.2	866.6
20°	3803.8	3585.4	3045.0	2446.5	1874.3	1400.2	1067.1	863.9	764.4	724.3	721.5
22.5°	3835.6	3566.1	2916.4	2211.5	1585.4	1140.3	877.7	740.9	688.3	667.6	664.8
25°	3886.8	3556.4	2779.6	1966.9	1325.5	953.7	764.4	680.0	649.6	635.8	634.4
27.5°	3972.4	3570.2	2651.1	1729.1	1114.1	827.9	700.8	649.6	627.5	615.1	613.7
30°	4083.0	3613.1	2515.6	1503.8	949.6	742.2	662.1	628.9	610.9	598.5	598.5
32.5°	4266.9	3685.0	2373.2	1308.9	832.1	682.8	633.0	610.9	595.7	586.1	584.7
35°	4537.8	3820.4	2240.5	1147.2	747.8	640.0	608.2	591.6	580.5	575.0	575.0
37.5°	4931.7	4034.6	2123.1	1031.1	696.6	610.9	584.7	572.2	565.3	565.3	565.3
40°	5461.1	4330.4	2027.7	953.7	667.6	590.2	566.7	557.0	552.9	554.3	554.3
42.5°	6114.9	4714.7	1964.1	899.8	653.8	577.8	554.3	546.0	541.8	540.4	541.8
45°	6859.9	5151.5	1957.2	859.7	640.0	569.5	546.0	537.7	529.4	523.9	523.9
47.5°	7584.1	5595.2	2013.9	845.9	624.8	559.8	539.1	530.8	518.3	505.9	505.9
50°	8224.1	5972.5	2089.9	851.4	619.2	546.0	528.0	523.9	504.5	490.7	489.3
52.5°	8732.8	6262.8	2152.1	868.0	624.8	536.3	514.2	515.6	494.8	479.6	478.2
55°	9140.5	6453.5	2135.5	884.6	637.2	530.8	501.7	504.5	487.9	472.7	472.7
57.5°	9318.8	6383.0	1951.7	870.8	646.9	532.1	492.1	503.1	489.3	475.5	475.5
60°	8935.9	5756.9	1607.5	810.0	634.4	528.0	487.9	508.7	507.3	493.4	492.1
62.5°	7777.7	4635.9	1246.7	720.1	591.6	507.3	476.9	507.3	522.5	518.3	516.9
65°	5994.6	3302.1	952.3	623.4	533.5	472.7	447.8	475.5	496.2	501.7	500.4
67.5°	3890.9	2023.5	733.9	532.1	468.6	432.6	410.5	423.0	427.1	427.1	424.3
70°	1913.0	1089.2	584.7	447.8	402.2	389.8	377.3	370.4	363.5	358.0	358.0
72.5°	944.0	711.8	481.0	378.7	346.9	341.4	338.6	330.3	324.8	317.9	315.1
75°	698.0	579.1	409.1	319.3	298.6	293.0	298.6	291.6	290.3	284.7	282.0
77.5°	573.6	493.4	352.5	273.7	255.7	246.0	254.3	255.7	257.1	248.8	246.0
80°	465.8	417.4	294.4	226.7	210.1	203.2	208.7	219.8	222.5	210.1	204.6
82.5°	335.9	341.4	237.7	176.9	163.1	157.6	168.6	182.5	185.2	167.2	163.1
85°	282.0	284.7	182.5	125.8	112.0	103.7	121.6	135.5	145.1	127.2	123.0
87.5°	117.5	167.2	105.0	70.5	62.2	53.9	65.0	71.9	87.1	80.2	78.8
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)