

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: P192052

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192052
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-04-LED-E1-SL4-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA 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: 22816 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

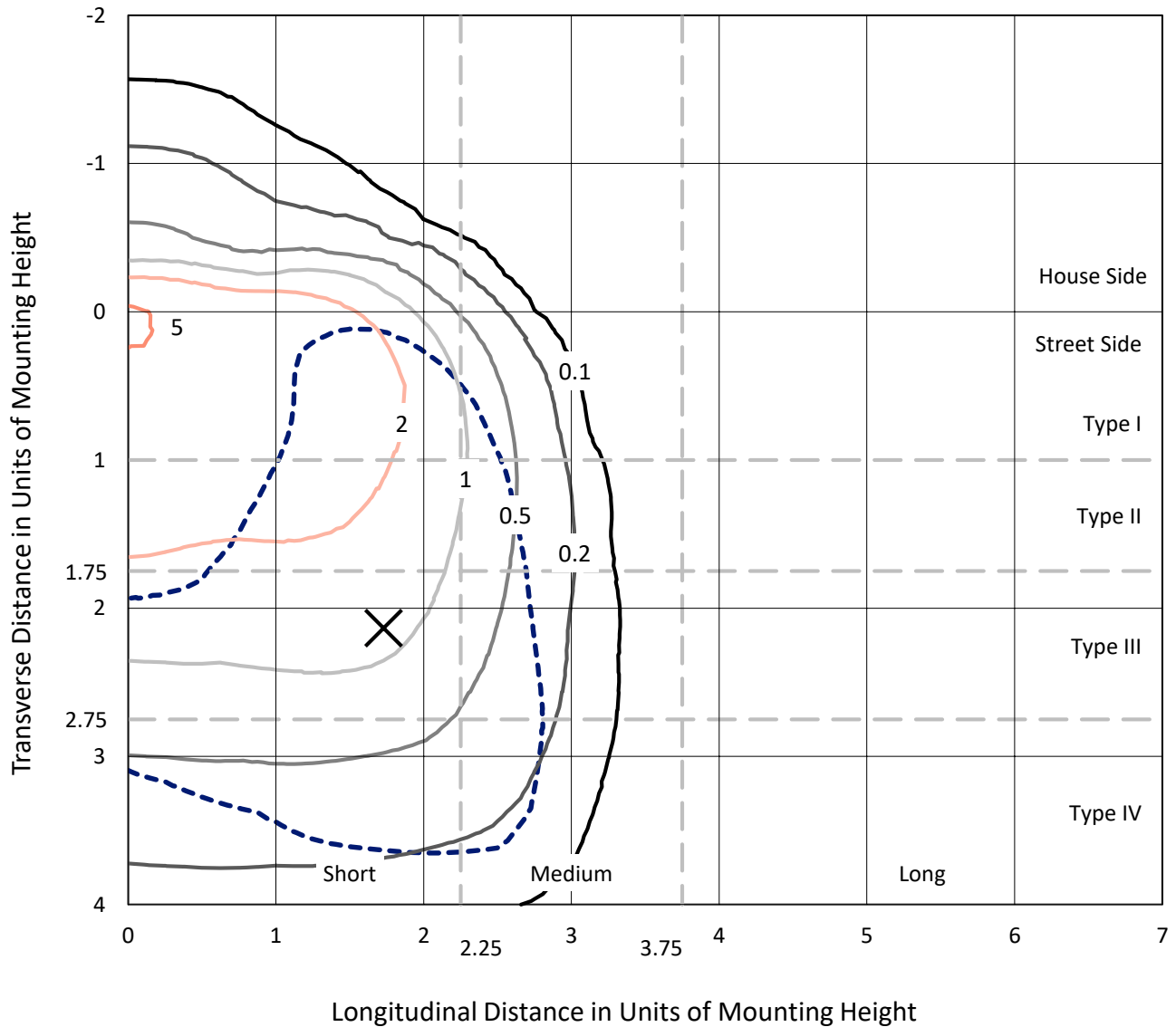
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

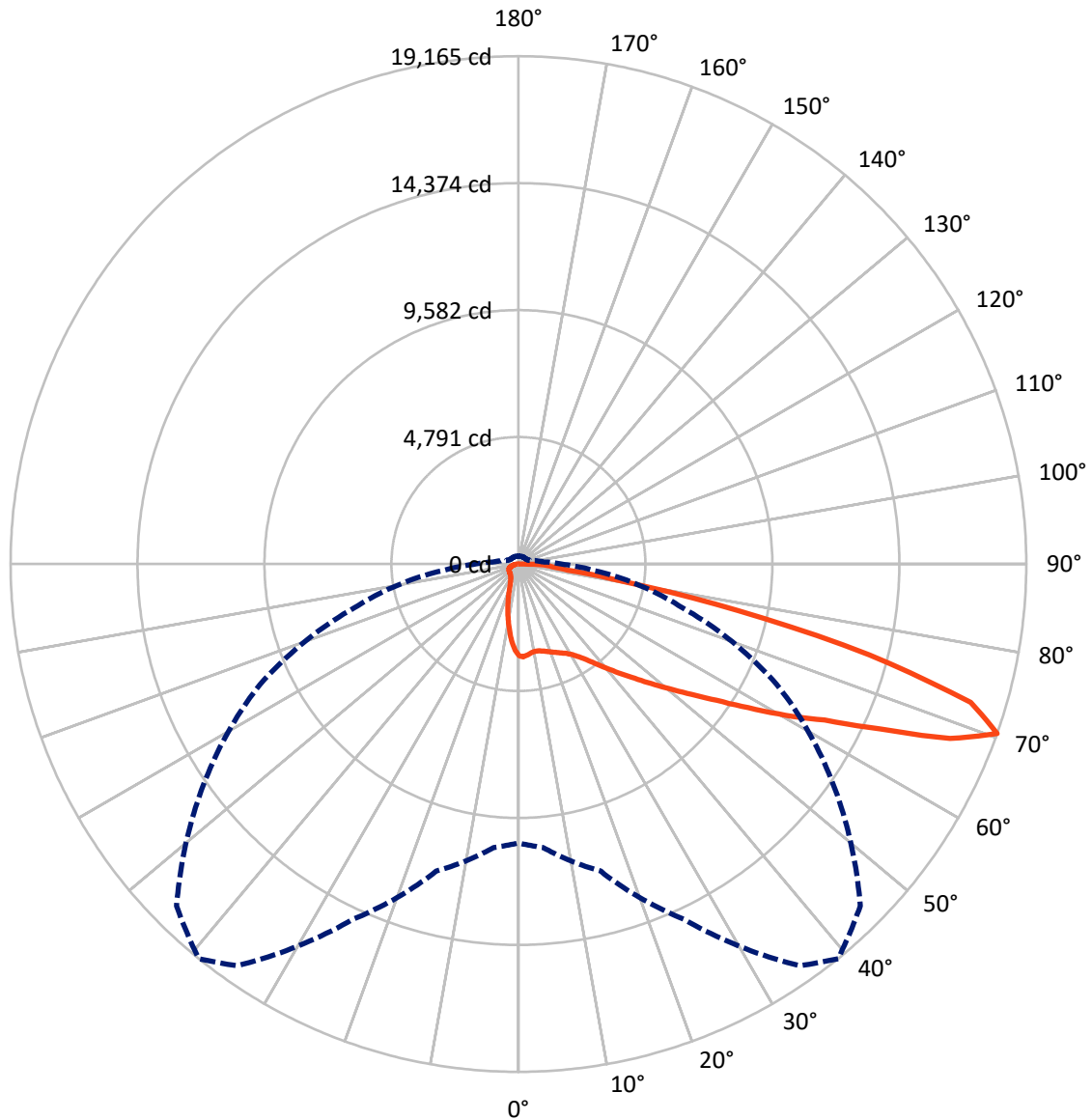
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2594.9	0.0	2594.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	20221.0	0.0	20221.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	22816.0	0.0	22816.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.3	1.3
10°-20°	743.0	3.3
20°-30°	1156.9	5.1
30°-40°	1802.3	7.9
40°-50°	3025.7	13.3
50°-60°	4806.7	21.1
60°-70°	6411.5	28.1
70°-80°	3871.8	17.0
80°-90°	700.7	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°	22816.0	100.0
0°-180°	22816.0	100.0



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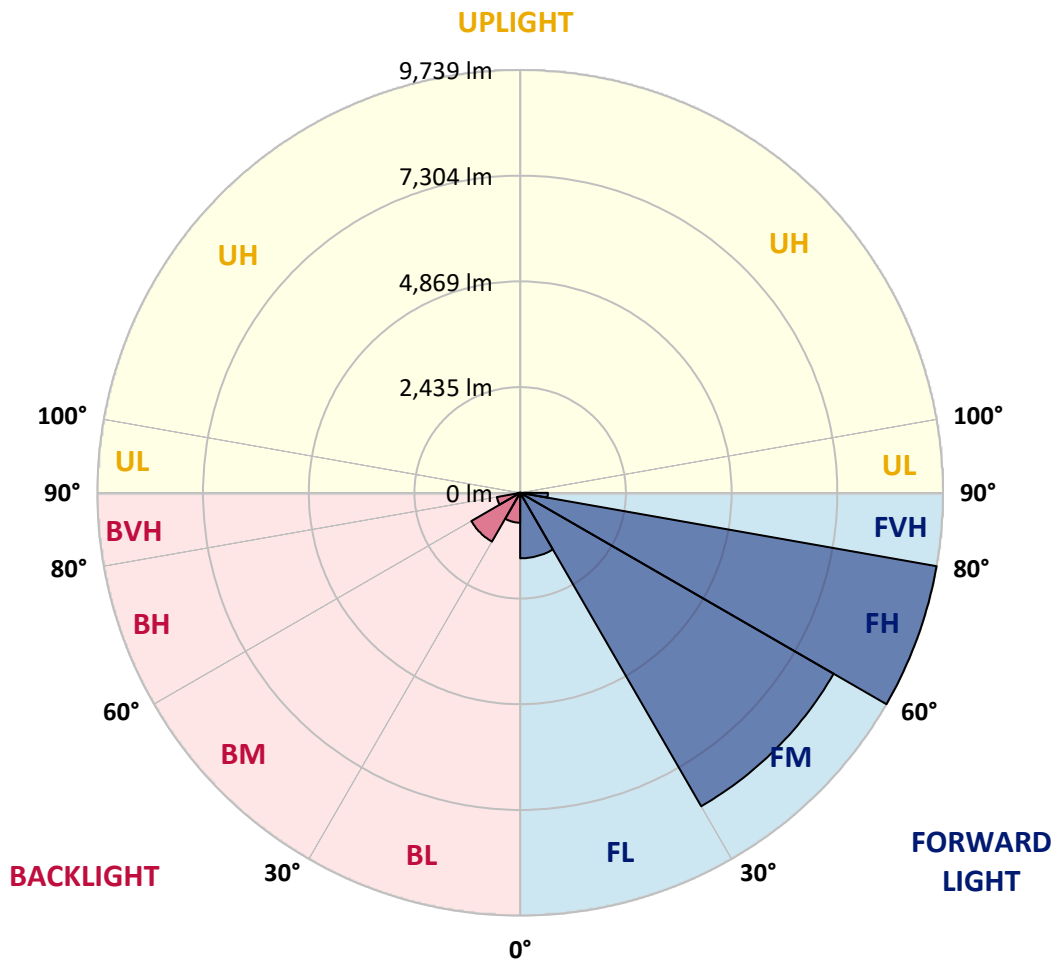
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1508.8	6.6			
FM	(30°-60°)	8336.1	36.5			
FH	(60°-80°)	9738.5	42.7			G4/12000
FVH	(80°-90°)	637.6	2.8			G4/750
BL	(0°-30°)	688.4	3.0	B2/1000		
BM	(30°-60°)	1298.6	5.7	B2/2500		
BH	(60°-80°)	544.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	63.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3463.8	3463.8	3463.8	3463.8	3463.8	3463.8	3463.8	3463.8	3463.8	3463.8	3463.8
2.5°	3531.1	3529.9	3520.7	3513.7	3507.9	3505.6	3510.2	3492.8	3477.7	3459.2	3439.5
5°	3504.4	3503.3	3488.2	3474.3	3460.3	3455.7	3454.5	3423.2	3404.7	3376.8	3339.7
7.5°	3475.4	3469.6	3449.9	3426.7	3402.3	3390.7	3379.1	3338.5	3317.7	3289.8	3246.9
10°	3445.3	3438.3	3419.7	3396.5	3373.3	3355.9	3336.2	3296.8	3274.7	3253.9	3204.0
12.5°	3413.9	3408.1	3403.5	3393.1	3376.8	3361.7	3346.7	3313.0	3289.8	3265.5	3207.5
15°	3409.3	3407.0	3417.4	3424.4	3415.1	3405.8	3389.6	3360.6	3336.2	3311.9	3236.5
17.5°	3446.4	3445.3	3471.9	3490.5	3485.9	3469.6	3447.6	3415.1	3395.4	3374.5	3280.5
20°	3527.6	3533.4	3565.9	3590.3	3567.1	3543.9	3507.9	3462.7	3452.2	3442.9	3325.8
22.5°	3680.7	3686.5	3709.7	3719.0	3658.7	3625.1	3575.2	3517.2	3510.2	3517.2	3380.3
25°	3919.7	3913.9	3910.4	3875.6	3765.4	3713.2	3649.4	3589.1	3592.6	3623.9	3456.9
27.5°	4236.4	4205.1	4156.4	4052.0	3876.8	3818.8	3741.1	3685.4	3707.4	3767.7	3571.7
30°	4564.7	4529.9	4417.4	4246.8	4023.0	3959.2	3872.1	3809.5	3867.5	3962.6	3724.8
32.5°	4868.6	4864.0	4699.2	4480.0	4224.8	4169.1	4082.1	4011.4	4105.3	4250.3	3954.5
35°	5200.4	5210.8	5013.6	4750.3	4497.4	4439.4	4376.8	4323.4	4448.7	4648.2	4287.4
37.5°	5555.3	5576.2	5343.1	5046.1	4808.3	4783.9	4746.8	4723.6	4917.3	5193.4	4752.6
40°	6029.8	6008.9	5685.3	5380.2	5189.9	5188.8	5177.2	5205.0	5527.5	5905.7	5350.0
42.5°	6537.9	6476.4	6048.3	5738.6	5608.7	5648.1	5671.3	5785.0	6261.8	6771.0	6078.5
45°	7085.4	6947.4	6425.4	6118.0	6073.9	6157.4	6236.3	6483.4	7126.0	7755.9	6876.6
47.5°	7522.7	7389.3	6815.1	6515.8	6612.1	6738.6	6890.5	7281.5	8093.5	8773.2	7664.3
50°	7867.3	7780.3	7208.4	6979.8	7204.9	7399.8	7648.0	8185.1	9100.4	9763.9	8393.9
52.5°	8201.3	8136.4	7605.1	7455.5	7900.9	8170.0	8507.6	9154.9	10132.8	10738.3	9007.6
55°	8503.0	8456.6	8032.0	8048.2	8719.9	9070.2	9494.8	10259.2	11258.0	11607.2	9527.3
57.5°	8842.8	8783.7	8519.2	8791.8	9772.0	10226.7	10778.9	11500.4	12313.6	12379.7	9922.8
60°	9185.0	9134.0	9059.8	9650.2	11108.4	11586.3	12109.5	12703.4	13384.3	12979.5	9899.6
62.5°	9482.0	9487.8	9618.9	10551.6	12416.9	12970.2	13608.2	14195.2	14352.9	13083.9	9167.6
65°	9985.5	10077.1	10468.0	11827.6	14259.0	14999.1	15782.1	15688.1	14620.9	12108.3	7598.1
67.5°	10584.0	10745.3	11537.6	13528.2	16587.1	17569.7	17872.4	16025.7	13547.9	9842.8	5416.1
70°	10523.7	10745.3	11999.3	14796.1	18505.8	19164.7	18246.0	14503.7	10758.0	6430.0	2876.9
72.5°	9345.1	9661.8	11058.5	14214.9	17901.4	17843.4	15840.1	10812.6	6391.7	2582.2	1124.1
75°	7122.5	7442.7	8644.5	11230.2	14148.8	13661.6	11239.4	5972.9	2425.6	1025.5	708.8
77.5°	4097.2	4345.4	5273.5	6887.0	8976.2	8476.3	6256.0	2656.4	1180.9	714.6	553.3
80°	2287.6	2425.6	2989.4	3494.0	4398.8	4032.2	2799.1	1650.7	881.6	518.5	426.9
82.5°	1808.5	1931.4	2417.5	2204.0	2009.2	1853.7	1607.8	1469.7	704.1	327.1	255.2
85°	1579.9	1697.1	2046.3	1735.4	1372.3	1258.6	1306.2	1446.5	547.5	197.2	218.1
87.5°	1463.9	1620.5	1823.6	1337.5	1068.4	946.6	1205.3	1585.7	176.3	123.0	88.2
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°	3463.8	3463.8	3463.8	3463.8	3463.8	3463.8	3463.8	3463.8	3463.8	3463.8	3463.8
2.5°	3422.1	3403.5	3373.3	3346.7	3304.9	3282.9	3258.5	3241.1	3227.2	3215.6	3234.1
5°	3316.5	3281.7	3217.9	3149.5	3068.3	3004.5	2951.1	2901.2	2866.4	2843.2	2859.5
7.5°	3216.7	3159.9	3060.1	2936.0	2796.8	2678.5	2581.0	2495.2	2436.0	2397.8	2412.8
10°	3159.9	3089.1	2934.9	2740.0	2534.6	2350.2	2197.1	2064.8	1973.2	1921.0	1929.1
12.5°	3146.0	3054.3	2840.9	2572.9	2292.2	2035.8	1820.1	1636.8	1508.0	1440.7	1443.1
15°	3156.4	3039.3	2752.7	2412.8	2057.9	1734.2	1465.1	1242.4	1092.7	1016.2	1015.0
17.5°	3173.8	3027.7	2659.9	2240.0	1820.1	1444.2	1143.8	925.7	793.5	732.0	727.3
20°	3192.4	3009.1	2555.5	2053.2	1573.0	1175.1	895.5	725.0	641.5	607.9	605.5
22.5°	3219.1	2992.9	2447.6	1856.0	1330.5	957.0	736.6	621.8	577.7	560.3	558.0
25°	3262.0	2984.7	2332.8	1650.7	1112.5	800.4	641.5	570.7	545.2	533.6	532.4
27.5°	3333.9	2996.3	2224.9	1451.2	935.0	694.9	588.1	545.2	526.6	516.2	515.0
30°	3426.7	3032.3	2111.2	1262.1	796.9	622.9	555.7	527.8	512.7	502.3	502.3
32.5°	3581.0	3092.6	1991.8	1098.5	698.3	573.1	531.3	512.7	500.0	491.8	490.7
35°	3808.3	3206.3	1880.4	962.8	627.6	537.1	510.4	496.5	487.2	482.6	482.6
37.5°	4139.0	3386.1	1781.8	865.4	584.7	512.7	490.7	480.2	474.4	474.4	474.4
40°	4583.2	3634.3	1701.8	800.4	560.3	495.3	475.6	467.5	464.0	465.2	465.2
42.5°	5131.9	3956.8	1648.4	755.2	548.7	484.9	465.2	458.2	454.7	453.6	454.7
45°	5757.2	4323.4	1642.6	721.5	537.1	477.9	458.2	451.2	444.3	439.6	439.6
47.5°	6365.0	4695.8	1690.2	709.9	524.3	469.8	452.4	445.4	435.0	424.6	424.6
50°	6902.1	5012.5	1754.0	714.6	519.7	458.2	443.1	439.6	423.4	411.8	410.6
52.5°	7329.0	5256.1	1806.2	728.5	524.3	450.1	431.5	432.7	415.3	402.5	401.4
55°	7671.2	5416.1	1792.2	742.4	534.8	445.4	421.1	423.4	409.5	396.7	396.7
57.5°	7820.9	5357.0	1637.9	730.8	542.9	446.6	413.0	422.2	410.6	399.0	399.0
60°	7499.5	4831.5	1349.1	679.8	532.4	443.1	409.5	426.9	425.7	414.1	413.0
62.5°	6527.4	3890.7	1046.3	604.4	496.5	425.7	400.2	425.7	438.5	435.0	433.8
65°	5031.0	2771.3	799.3	523.2	447.8	396.7	375.8	399.0	416.4	421.1	419.9
67.5°	3265.5	1698.3	616.0	446.6	393.2	363.1	344.5	355.0	358.4	358.4	356.1
70°	1605.5	914.1	490.7	375.8	337.6	327.1	316.7	310.9	305.1	300.4	300.4
72.5°	792.3	597.4	403.7	317.8	291.2	286.5	284.2	277.2	272.6	266.8	264.5
75°	585.8	486.0	343.4	268.0	250.6	245.9	250.6	244.8	243.6	239.0	236.6
77.5°	481.4	414.1	295.8	229.7	214.6	206.5	213.4	214.6	215.8	208.8	206.5
80°	390.9	350.3	247.1	190.2	176.3	170.5	175.2	184.4	186.8	176.3	171.7
82.5°	281.9	286.5	199.5	148.5	136.9	132.2	141.5	153.1	155.4	140.4	136.9
85°	236.6	239.0	153.1	105.6	94.0	87.0	102.1	113.7	121.8	106.7	103.2
87.5°	98.6	140.4	88.2	59.2	52.2	45.2	54.5	60.3	73.1	67.3	66.1
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)