

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: P192062

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192062
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-SL4-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1200mA 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: 25029 lumens
Efficiency: N/A
Efficacy: 97.0 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): 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

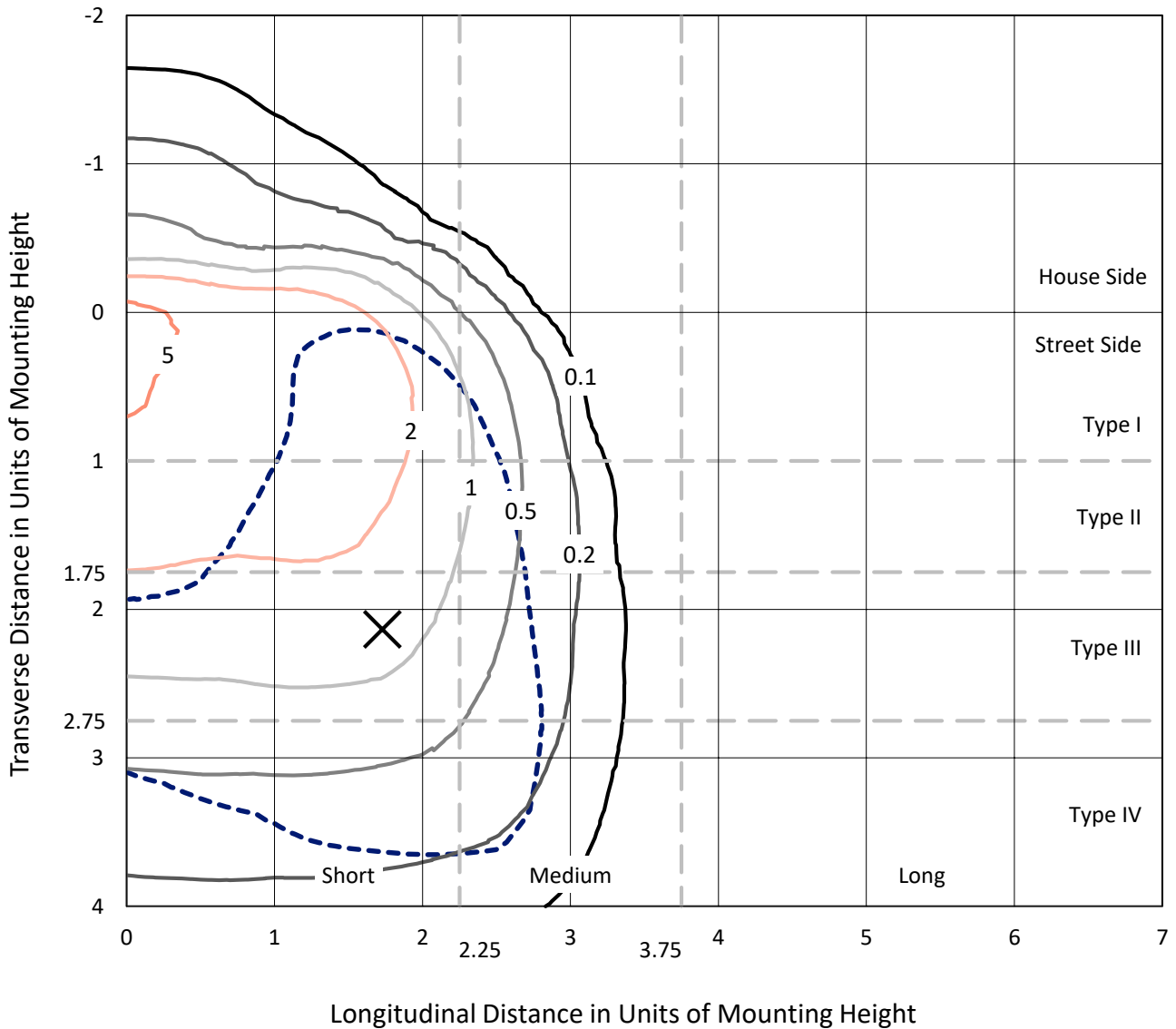


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

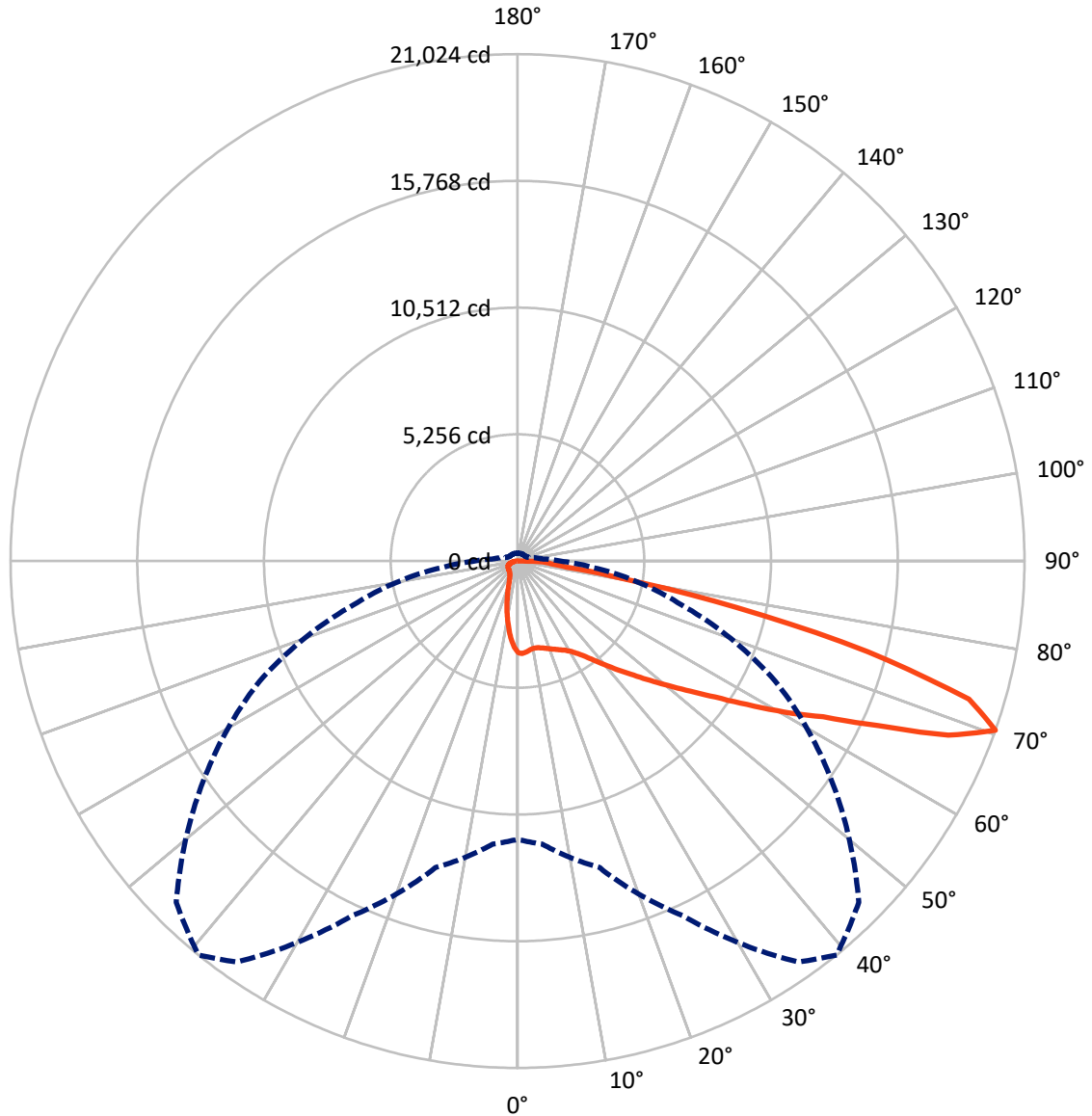


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

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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	2846.6	0.0	2846.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	22182.3	0.0	22182.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	25029.0	0.0	25029.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.1	1.3
10°-20°	815.1	3.3
20°-30°	1269.2	5.1
30°-40°	1977.1	7.9
40°-50°	3319.2	13.3
50°-60°	5272.9	21.1
60°-70°	7033.4	28.1
70°-80°	4247.3	17.0
80°-90°	768.7	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°	25029.0	100.0
0°-180°	25029.0	100.0



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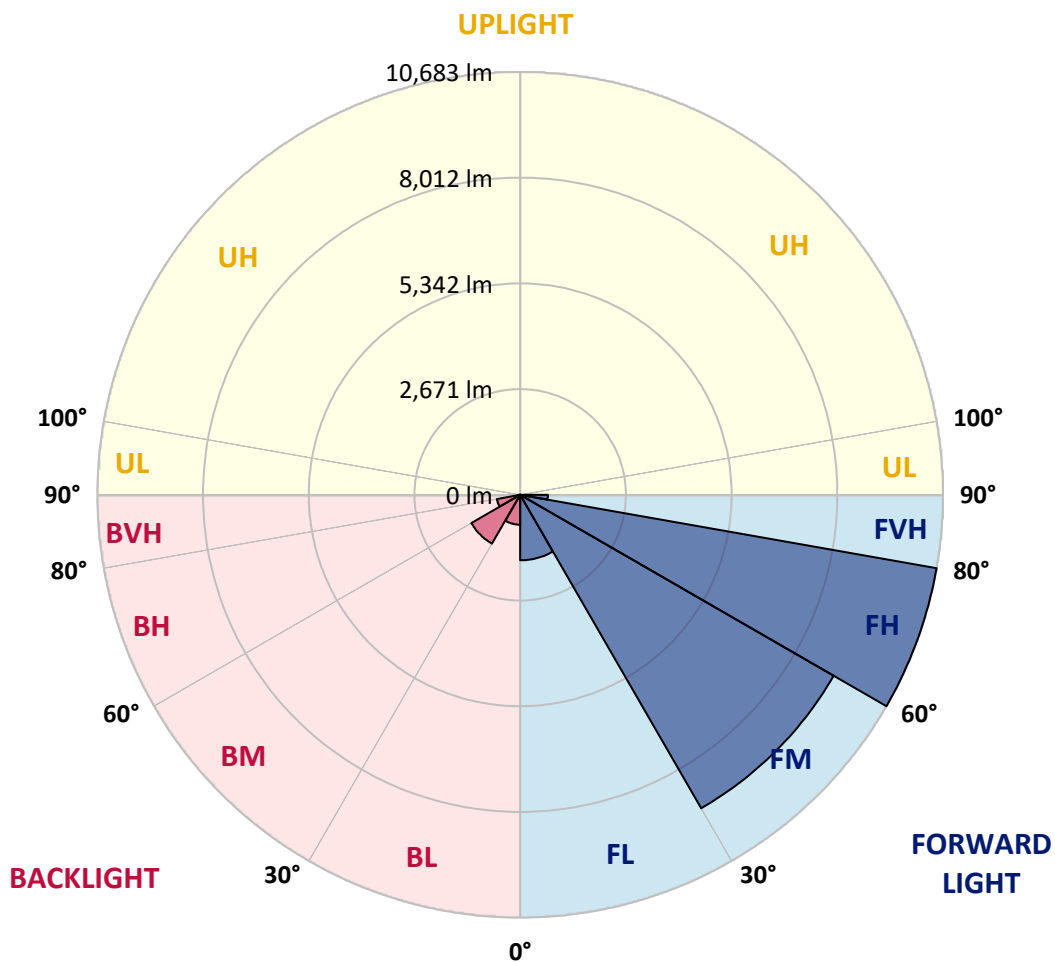
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1655.2	6.6			
FM	(30°-60°)	9144.6	36.5			
FH	(60°-80°)	10683.1	42.7			G4/12000
FVH	(80°-90°)	699.4	2.8			G4/750
BL	(0°-30°)	755.2	3.0	B2/1000		
BM	(30°-60°)	1424.6	5.7	B2/2500		
BH	(60°-80°)	597.6	2.4	B2/1000		G2/1000
BVH	(80°-90°)	69.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3799.8	3799.8	3799.8	3799.8	3799.8	3799.8	3799.8	3799.8	3799.8	3799.8	3799.8
2.5°	3873.6	3872.3	3862.1	3854.5	3848.1	3845.6	3850.7	3831.6	3815.1	3794.7	3773.1
5°	3844.3	3843.1	3826.5	3811.2	3796.0	3790.9	3789.6	3755.3	3734.9	3704.3	3663.6
7.5°	3812.5	3806.2	3784.5	3759.1	3732.3	3719.6	3706.9	3662.4	3639.5	3608.9	3561.8
10°	3779.4	3771.8	3751.4	3726.0	3700.5	3681.4	3659.8	3616.5	3592.4	3569.5	3514.7
12.5°	3745.1	3738.7	3733.6	3722.2	3704.3	3687.8	3671.3	3634.4	3608.9	3582.2	3518.6
15°	3740.0	3737.4	3748.9	3756.5	3746.3	3736.2	3718.3	3686.5	3659.8	3633.1	3550.4
17.5°	3780.7	3779.4	3808.7	3829.1	3824.0	3806.2	3782.0	3746.3	3724.7	3701.8	3598.7
20°	3869.8	3876.1	3911.8	3938.5	3913.0	3887.6	3848.1	3798.5	3787.1	3776.9	3648.4
22.5°	4037.8	4044.1	4069.6	4079.7	4013.6	3976.7	3922.0	3858.3	3850.7	3858.3	3708.2
25°	4299.9	4293.5	4289.7	4251.5	4130.6	4073.4	4003.4	3937.2	3941.0	3975.4	3792.2
27.5°	4647.3	4612.9	4559.5	4445.0	4252.8	4189.2	4103.9	4042.8	4067.0	4133.2	3918.1
30°	5007.4	4969.2	4845.8	4658.8	4413.2	4343.2	4247.7	4179.0	4242.6	4347.0	4086.1
32.5°	5340.8	5335.7	5155.0	4914.5	4634.6	4573.5	4478.1	4400.4	4503.5	4662.6	4338.1
35°	5704.8	5716.2	5499.9	5211.0	4933.6	4870.0	4801.3	4742.7	4880.2	5099.0	4703.3
37.5°	6094.2	6117.1	5861.3	5535.5	5274.7	5247.9	5207.2	5181.8	5394.3	5697.1	5213.6
40°	6614.6	6591.7	6236.7	5902.0	5693.3	5692.0	5679.3	5709.9	6063.6	6478.5	5868.9
42.5°	7172.0	7104.6	6635.0	6295.2	6152.7	6196.0	6221.4	6346.1	6869.1	7427.8	6668.1
45°	7772.6	7621.2	7048.6	6711.4	6663.0	6754.6	6841.1	7112.2	7817.2	8508.2	7543.6
47.5°	8252.4	8106.0	7476.1	7147.8	7253.5	7392.2	7558.9	7987.7	8878.5	9624.2	8407.6
50°	8630.3	8534.9	7907.5	7656.8	7903.7	8117.5	8389.8	8979.0	9983.0	10710.9	9208.1
52.5°	8996.8	8925.6	8342.7	8178.6	8667.2	8962.5	9332.8	10042.8	11115.6	11779.9	9881.2
55°	9327.7	9276.8	8811.0	8828.8	9565.6	9950.0	10415.7	11254.3	12350.0	12733.0	10451.3
57.5°	9700.5	9635.6	9345.5	9644.5	10719.8	11218.7	11824.4	12615.9	13508.0	13580.5	10885.3
60°	10075.9	10019.9	9938.5	10586.2	12185.8	12710.1	13284.0	13935.5	14682.5	14238.4	10859.8
62.5°	10401.7	10408.1	10551.9	11575.0	13621.2	14228.2	14928.1	15572.0	15745.1	14352.9	10056.8
65°	10954.0	11054.5	11483.4	12974.8	15642.0	16453.9	17312.8	17209.8	16039.0	13282.7	8335.1
67.5°	11610.6	11787.5	12656.6	14840.3	18196.0	19273.8	19605.9	17580.1	14861.9	10797.5	5941.5
70°	11544.4	11787.5	13163.1	16231.2	20300.8	21023.6	20015.7	15910.5	11801.5	7053.7	3155.9
72.5°	10251.5	10598.9	12131.1	15593.6	19637.8	19574.1	17376.5	11861.3	7011.7	2832.7	1233.1
75°	7813.4	8164.6	9482.9	12319.4	15521.1	14986.6	12329.6	6552.3	2660.9	1124.9	777.5
77.5°	4494.6	4766.9	5784.9	7555.0	9846.9	9298.4	6862.8	2914.1	1295.4	783.9	607.0
80°	2509.4	2660.9	3279.3	3832.9	4825.5	4423.3	3070.6	1810.8	967.1	568.8	468.3
82.5°	1983.9	2118.8	2652.0	2417.8	2204.0	2033.5	1763.7	1612.3	772.4	358.9	280.0
85°	1733.2	1861.7	2244.8	1903.7	1505.4	1380.7	1432.9	1586.9	600.6	216.3	239.2
87.5°	1605.9	1777.7	2000.4	1467.2	1172.0	1038.4	1322.2	1739.6	193.4	134.9	96.7
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°	3799.8	3799.8	3799.8	3799.8	3799.8	3799.8	3799.8	3799.8	3799.8	3799.8	3799.8
2.5°	3754.0	3733.6	3700.5	3671.3	3625.5	3601.3	3574.6	3555.5	3540.2	3527.5	3547.8
5°	3638.2	3600.0	3530.0	3454.9	3365.9	3295.9	3237.3	3182.6	3144.4	3119.0	3136.8
7.5°	3528.7	3466.4	3356.9	3220.8	3068.1	2938.3	2831.4	2737.2	2672.3	2630.3	2646.9
10°	3466.4	3388.8	3219.5	3005.7	2780.5	2578.2	2410.2	2265.1	2164.6	2107.3	2116.2
12.5°	3451.1	3350.6	3116.4	2822.5	2514.5	2233.3	1996.6	1795.5	1654.3	1580.5	1583.0
15°	3462.6	3334.0	3019.7	2646.9	2257.5	1902.4	1607.2	1362.9	1198.7	1114.7	1113.5
17.5°	3481.7	3321.3	2917.9	2457.3	1996.6	1584.3	1254.7	1015.5	870.4	803.0	797.9
20°	3502.0	3301.0	2803.4	2252.4	1725.6	1289.1	982.4	795.3	703.7	666.8	664.3
22.5°	3531.3	3283.1	2685.0	2036.1	1459.6	1049.8	808.1	682.1	633.7	614.6	612.1
25°	3578.4	3274.2	2559.1	1810.8	1220.4	878.0	703.7	626.1	598.1	585.4	584.1
27.5°	3657.3	3287.0	2440.7	1591.9	1025.7	762.2	645.2	598.1	577.7	566.3	565.0
30°	3759.1	3326.4	2316.0	1384.5	874.2	683.4	609.5	579.0	562.5	551.0	551.0
32.5°	3928.3	3392.6	2184.9	1205.1	766.1	628.6	582.8	562.5	548.5	539.6	538.3
35°	4177.7	3517.3	2062.8	1056.2	688.4	589.2	559.9	544.6	534.5	529.4	529.4
37.5°	4540.4	3714.5	1954.6	949.3	641.4	562.5	538.3	526.8	520.5	520.5	520.5
40°	5027.8	3986.9	1866.8	878.0	614.6	543.4	521.7	512.8	509.0	510.3	510.3
42.5°	5629.7	4340.6	1808.3	828.4	601.9	531.9	510.3	502.7	498.8	497.6	498.8
45°	6315.6	4742.7	1801.9	791.5	589.2	524.3	502.7	495.0	487.4	482.3	482.3
47.5°	6982.4	5151.2	1854.1	778.8	575.2	515.4	496.3	488.7	477.2	465.7	465.7
50°	7571.6	5498.6	1924.1	783.9	570.1	502.7	486.1	482.3	464.5	451.7	450.5
52.5°	8039.9	5765.9	1981.3	799.2	575.2	493.7	473.4	474.7	455.6	441.6	440.3
55°	8415.3	5941.5	1966.1	814.4	586.6	488.7	461.9	464.5	449.2	435.2	435.2
57.5°	8579.4	5876.6	1796.8	801.7	595.5	489.9	453.0	463.2	450.5	437.8	437.8
60°	8226.9	5300.1	1480.0	745.7	584.1	486.1	449.2	468.3	467.0	454.3	453.0
62.5°	7160.6	4268.1	1147.8	663.0	544.6	467.0	439.0	467.0	481.0	477.2	475.9
65°	5519.0	3040.1	876.8	573.9	491.2	435.2	412.3	437.8	456.8	461.9	460.7
67.5°	3582.2	1863.0	675.7	489.9	431.4	398.3	377.9	389.4	393.2	393.2	390.7
70°	1761.2	1002.8	538.3	412.3	370.3	358.9	347.4	341.0	334.7	329.6	329.6
72.5°	869.1	655.4	442.8	348.7	319.4	314.3	311.8	304.1	299.0	292.7	290.1
75°	642.6	533.2	376.7	294.0	274.9	269.8	274.9	268.5	267.2	262.1	259.6
77.5°	528.1	454.3	324.5	252.0	235.4	226.5	234.1	235.4	236.7	229.1	226.5
80°	428.8	384.3	271.0	208.7	193.4	187.1	192.2	202.3	204.9	193.4	188.3
82.5°	309.2	314.3	218.9	162.9	150.2	145.1	155.2	168.0	170.5	154.0	150.2
85°	259.6	262.1	168.0	115.8	103.1	95.4	112.0	124.7	133.6	117.1	113.3
87.5°	108.2	154.0	96.7	64.9	57.3	49.6	59.8	66.2	80.2	73.8	72.5
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)