

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: P193702

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15831 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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

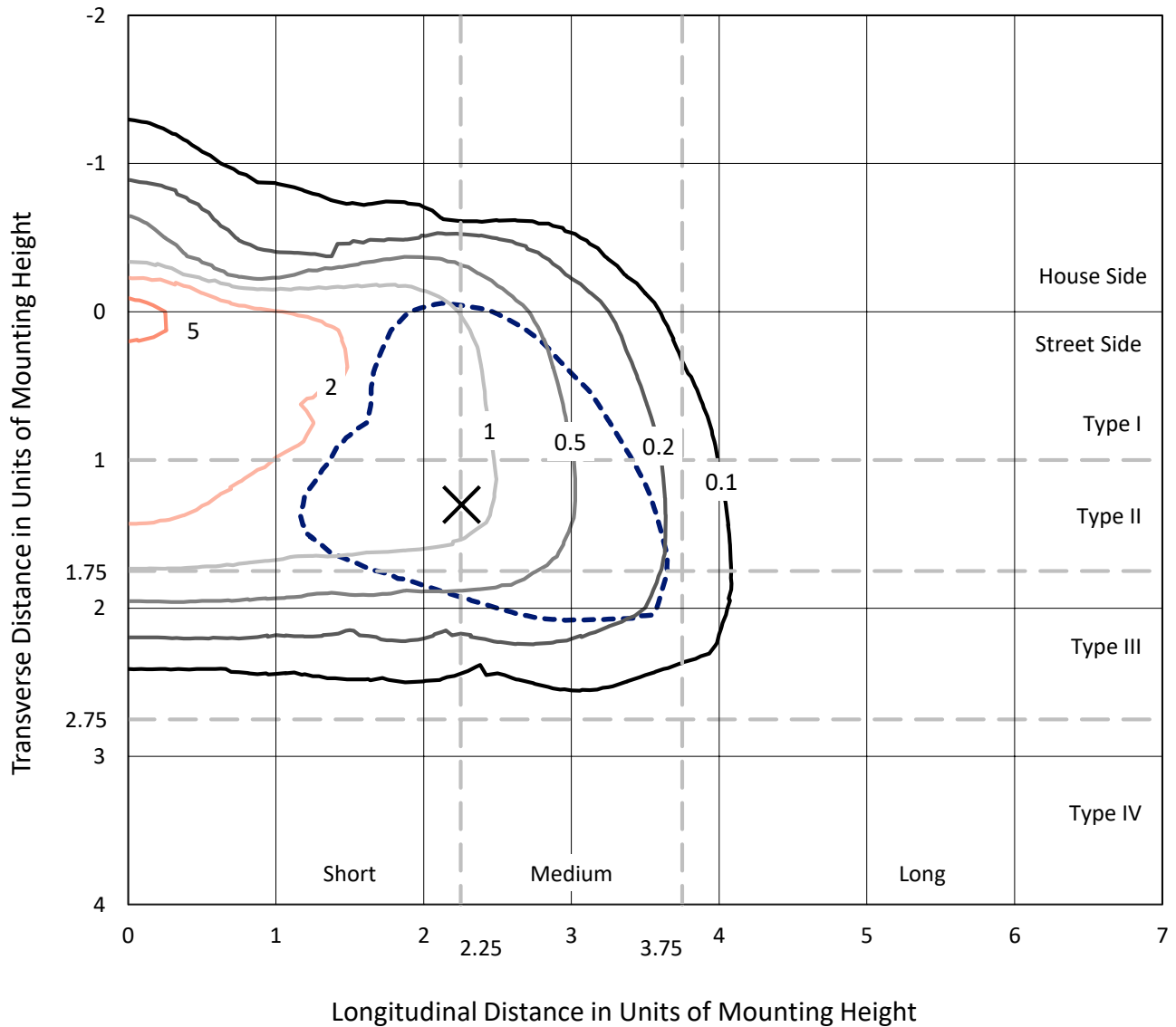


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

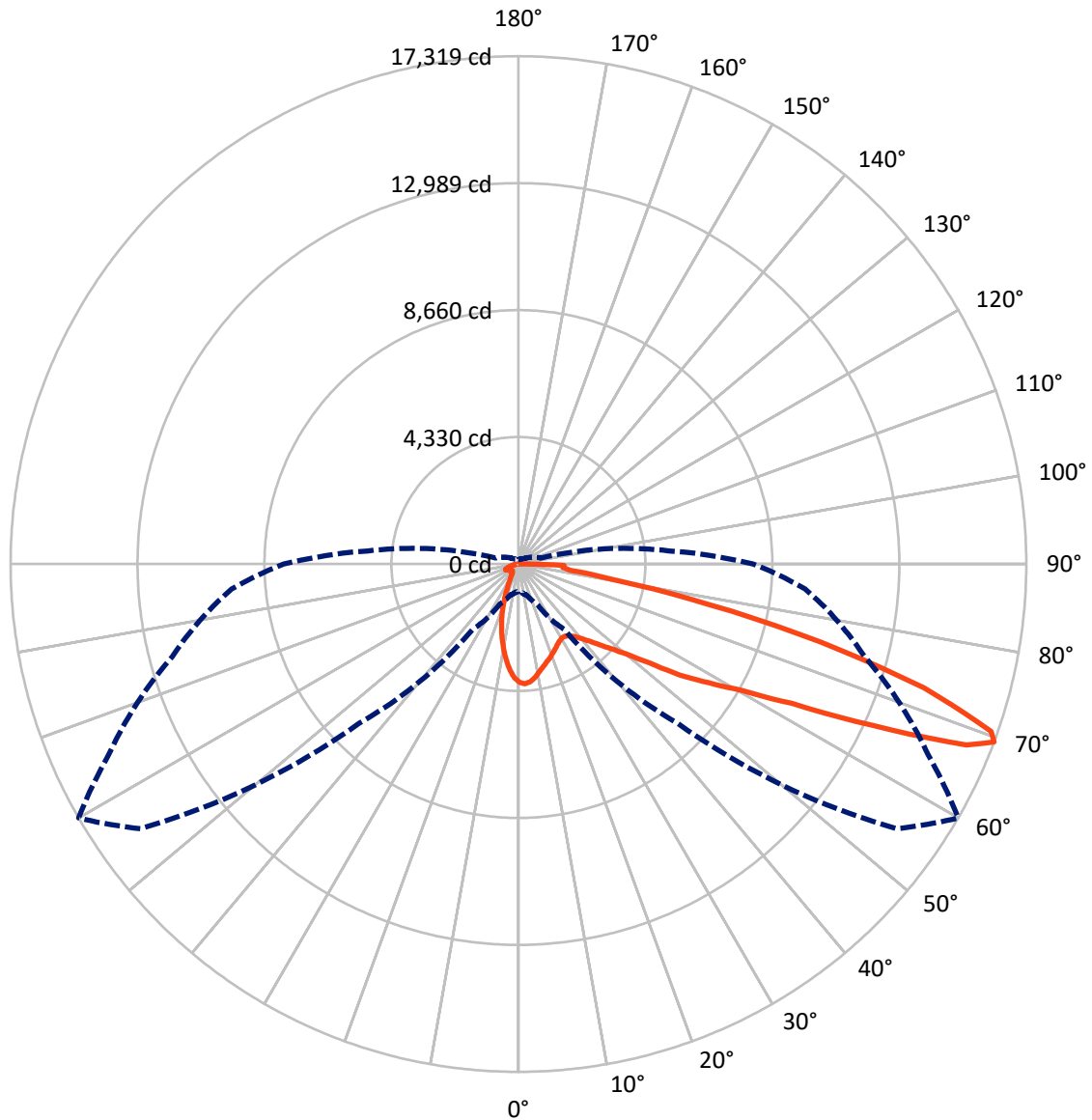


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2252.3	0.0	2252.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	13578.7	0.0	13578.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	15831.0	0.0	15831.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	2.2
10°-20°	726.7	4.6
20°-30°	926.0	5.8
30°-40°	1273.0	8.0
40°-50°	2065.5	13.0
50°-60°	3312.5	20.9
60°-70°	4408.7	27.8
70°-80°	2380.4	15.0
80°-90°	397.2	2.5
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°	15831.0	100.0
0°-180°	15831.0	100.0



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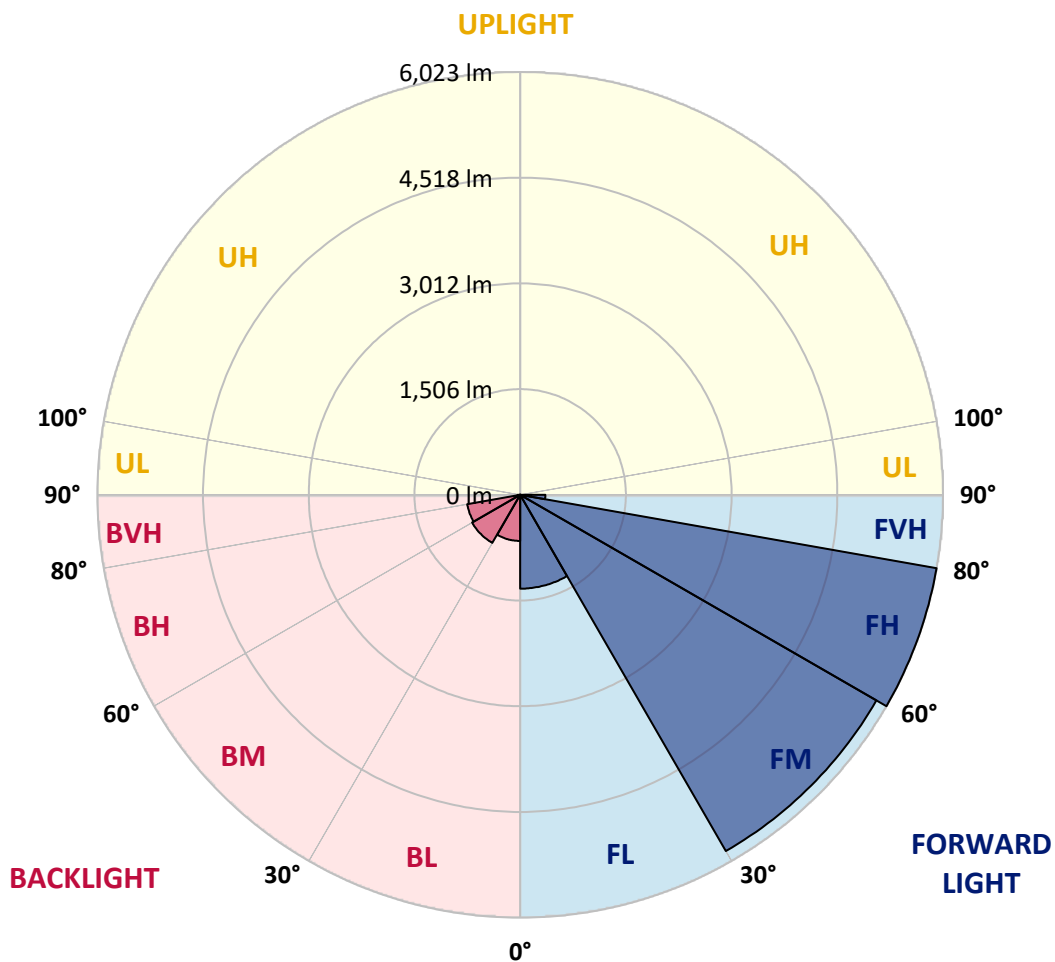
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1336.7	8.4			
FM (30°-60°)	5859.7	37.0			
FH (60°-80°)	6023.4	38.0			G3/7500
FVH (80°-90°)	358.9	2.3			G3/500
BL (0°-30°)	657.1	4.2	B2/1000		
BM (30°-60°)	791.3	5.0	B1/1000		
BH (60°-80°)	765.7	4.8	B2/1000		G2/1000
BVH (80°-90°)	38.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4034.0	4034.0	4034.0	4034.0	4034.0	4034.0	4034.0	4034.0	4034.0	4034.0	4034.0
2.5°	4116.6	4125.7	4121.9	4119.6	4126.5	4115.8	4093.6	4086.7	4076.0	4050.8	4008.0
5°	3962.1	3989.6	3988.1	4008.7	4043.2	4052.3	4042.4	4043.9	4024.0	3992.7	3921.6
7.5°	3695.2	3706.7	3712.8	3757.9	3820.6	3871.1	3913.9	3927.7	3918.5	3891.7	3800.0
10°	3419.9	3429.1	3443.6	3496.4	3575.9	3645.5	3726.6	3773.2	3793.1	3788.5	3686.0
12.5°	3183.6	3192.8	3211.9	3271.5	3366.4	3452.0	3569.8	3627.9	3675.3	3703.6	3593.5
15°	2971.8	2991.6	3010.0	3078.8	3185.1	3297.5	3430.6	3504.0	3577.4	3640.9	3511.7
17.5°	2806.6	2826.5	2837.2	2899.9	3013.1	3150.7	3306.7	3393.1	3484.9	3588.9	3430.6
20°	2711.0	2720.2	2715.6	2750.8	2852.5	2998.5	3183.6	3283.8	3394.7	3540.0	3349.5
22.5°	2684.2	2685.0	2668.2	2664.3	2730.1	2853.2	3052.1	3173.7	3309.8	3507.8	3280.0
25°	2749.2	2746.9	2701.0	2663.6	2670.5	2742.3	2925.1	3066.6	3238.7	3501.0	3226.4
27.5°	2893.8	2900.6	2832.6	2762.2	2692.6	2690.3	2828.8	2977.9	3180.5	3532.3	3203.5
30°	3096.4	3107.9	3035.2	2945.8	2815.0	2707.2	2791.3	2925.1	3144.6	3597.3	3199.7
32.5°	3318.2	3330.4	3275.4	3181.3	3010.0	2811.2	2817.3	2929.7	3143.1	3688.3	3225.7
35°	3554.5	3568.3	3540.0	3460.4	3270.0	3003.1	2916.7	3003.9	3192.8	3827.5	3295.2
37.5°	3818.3	3839.7	3847.4	3771.7	3568.3	3256.2	3079.6	3144.6	3305.2	4021.0	3423.0
40°	4198.4	4228.2	4225.9	4117.3	3910.1	3598.1	3331.2	3348.0	3480.3	4279.5	3627.1
42.5°	4926.4	4932.5	4742.1	4505.8	4286.3	3957.5	3627.9	3614.1	3722.0	4606.8	3927.7
45°	5852.5	5827.3	5403.6	4947.1	4679.4	4370.5	4014.1	3946.8	4028.6	5006.0	4303.9
47.5°	6621.1	6563.0	6027.6	5397.5	5095.4	4819.4	4467.6	4349.8	4394.9	5458.7	4790.3
50°	6888.0	6844.4	6400.8	5772.2	5489.3	5366.9	5025.8	4859.1	4871.4	5998.6	5360.0
52.5°	6830.6	6824.5	6528.5	6019.2	5857.9	5942.0	5816.6	5591.0	5471.7	6598.1	5974.9
55°	6695.3	6708.3	6601.2	6306.8	6279.2	6497.2	6849.7	6683.0	6312.1	7203.0	6610.4
57.5°	6224.9	6258.6	6494.1	6668.5	6957.6	7281.8	7681.8	7634.4	7216.8	7856.9	7365.9
60°	5015.1	5093.1	5724.8	6598.1	7655.8	8669.8	8848.8	8738.6	8149.8	8668.3	8363.9
62.5°	3514.0	3595.0	4346.0	5712.6	7541.1	10237.5	10935.0	10460.1	9489.6	9863.6	9655.5
65°	1881.2	1920.3	2493.8	3963.6	6366.4	10561.0	13984.0	13261.3	11611.0	11337.2	10760.6
67.5°	1037.7	1059.2	1278.6	2001.3	4077.6	9299.9	15926.4	16472.4	14262.3	12318.4	10559.5
69°	938.3	958.2	1102.0	1515.7	2728.6	7689.4	15736.7	17319.0	15424.7	12221.2	9816.1
70°	917.7	936.0	1065.3	1397.2	2208.6	6338.1	15101.2	17102.5	15701.5	11873.3	9167.6
72.5°	825.9	845.8	971.2	1254.9	1887.4	3159.9	11962.0	14460.4	14255.4	10294.9	6953.7
75°	770.1	788.4	1001.0	1228.9	1807.1	1999.8	7886.0	10657.4	10479.2	7201.5	3749.5
77.5°	329.6	328.1	464.2	1040.0	1833.8	1936.3	4237.4	6657.8	6074.3	3078.1	1076.7
80°	220.2	216.4	220.2	305.9	1681.7	1947.0	2220.0	3379.4	2552.7	784.6	530.7
82.5°	189.7	186.6	193.5	186.6	591.1	2222.3	1887.4	1797.1	1213.6	445.8	263.1
85°	127.7	122.4	166.7	167.5	279.1	1974.5	2126.0	1518.0	981.9	264.6	130.0
87.5°	61.2	59.6	97.1	118.5	163.7	802.2	2385.2	1555.5	990.3	135.4	61.9
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°	4034.0	4034.0	4034.0	4034.0	4034.0	4034.0	4034.0	4034.0	4034.0	4034.0	4034.0
2.5°	3995.0	3963.6	3933.0	3896.3	3858.1	3815.3	3793.9	3772.4	3767.1	3761.0	3739.6
5°	3884.9	3840.5	3764.0	3679.9	3591.2	3504.8	3439.0	3397.7	3366.4	3350.3	3322.0
7.5°	3742.6	3677.6	3543.8	3398.5	3249.4	3113.2	2995.5	2921.3	2850.9	2818.0	2780.6
10°	3607.3	3510.1	3302.1	3088.0	2873.9	2668.2	2474.7	2337.8	2216.2	2148.1	2100.0
12.5°	3491.0	3358.0	3069.6	2779.8	2486.2	2193.3	1903.4	1675.5	1485.1	1384.9	1333.7
15°	3377.8	3217.2	2848.6	2480.8	2103.8	1705.4	1324.5	1066.0	908.5	845.8	824.4
17.5°	3275.4	3069.6	2626.9	2179.5	1709.2	1227.4	890.2	747.9	687.5	666.8	660.0
20°	3164.5	2920.5	2396.7	1864.4	1297.8	858.0	695.1	632.4	608.0	601.8	598.8
22.5°	3057.4	2773.7	2176.4	1527.2	932.2	662.3	597.3	571.3	567.4	572.8	572.8
25°	2966.4	2642.2	1938.6	1174.6	684.4	557.5	534.6	528.4	543.0	562.8	566.7
27.5°	2898.3	2534.3	1685.5	867.2	545.3	484.8	484.1	494.0	530.0	568.2	575.8
30°	2851.7	2431.9	1414.8	625.6	457.3	426.7	439.0	460.4	513.1	567.4	582.0
32.5°	2828.0	2356.1	1132.6	484.1	391.5	374.7	395.4	421.4	473.4	523.8	543.0
35°	2846.3	2300.3	866.4	403.8	345.7	332.7	354.1	379.3	409.9	431.3	445.8
37.5°	2915.2	2278.1	653.8	361.7	314.3	302.1	318.9	333.4	345.7	351.8	358.7
40°	3063.5	2301.9	523.8	340.3	296.7	281.4	288.3	293.7	301.3	307.4	310.5
42.5°	3282.2	2373.0	469.5	331.9	287.5	265.4	263.8	266.1	276.1	287.5	289.8
45°	3588.1	2498.4	465.7	337.2	283.0	252.4	245.5	248.5	263.8	281.4	284.5
47.5°	3978.9	2689.6	496.3	353.3	286.8	245.5	234.0	237.8	257.0	280.7	284.5
50°	4452.3	2956.5	547.6	377.0	303.6	247.0	230.2	232.5	252.4	278.4	282.2
52.5°	5011.3	3335.0	603.4	400.0	321.2	257.0	233.2	227.9	246.2	269.2	273.8
55°	5633.0	3820.6	660.7	420.6	330.4	269.2	239.4	221.8	234.8	253.9	257.7
57.5°	6396.2	4499.7	760.1	440.5	336.5	277.6	245.5	215.7	220.2	234.0	237.1
60°	7429.4	5460.2	935.3	473.4	350.2	280.7	244.7	210.3	205.7	213.4	214.9
62.5°	8667.5	6503.3	1081.3	514.7	373.2	283.0	240.1	206.5	193.5	193.5	195.0
65°	9402.4	6782.4	1000.3	549.1	392.3	280.7	234.8	202.7	184.3	175.9	176.7
67.5°	8779.2	5964.9	857.3	556.0	391.5	270.0	226.4	195.8	175.1	162.1	161.4
69°	7998.4	5146.7	793.0	537.6	373.2	256.2	215.7	188.1	168.2	154.5	153.7
70°	7369.0	4647.3	751.0	517.7	353.3	246.2	207.2	181.2	162.9	149.9	148.4
72.5°	5357.7	3045.2	641.6	445.1	291.4	206.5	178.9	159.1	145.3	137.7	136.1
75°	2677.3	1452.2	520.8	361.0	223.3	165.2	146.8	133.1	126.2	124.7	123.9
77.5°	879.4	665.3	372.4	269.2	165.9	129.2	118.5	108.6	107.1	111.7	110.1
80°	483.3	387.0	236.3	178.2	113.2	94.8	93.3	87.9	90.2	97.9	96.4
82.5°	246.2	201.1	146.1	107.1	76.5	68.1	74.2	71.1	74.2	81.1	80.3
85°	121.6	110.1	92.5	65.0	50.5	43.6	52.8	55.1	56.6	61.9	61.9
87.5°	70.4	65.0	48.9	30.6	25.2	22.9	30.6	29.8	35.2	38.2	37.5
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)