

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: P319788

Luminaire Tested: **GLEON-SA4A-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA 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: 13820 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

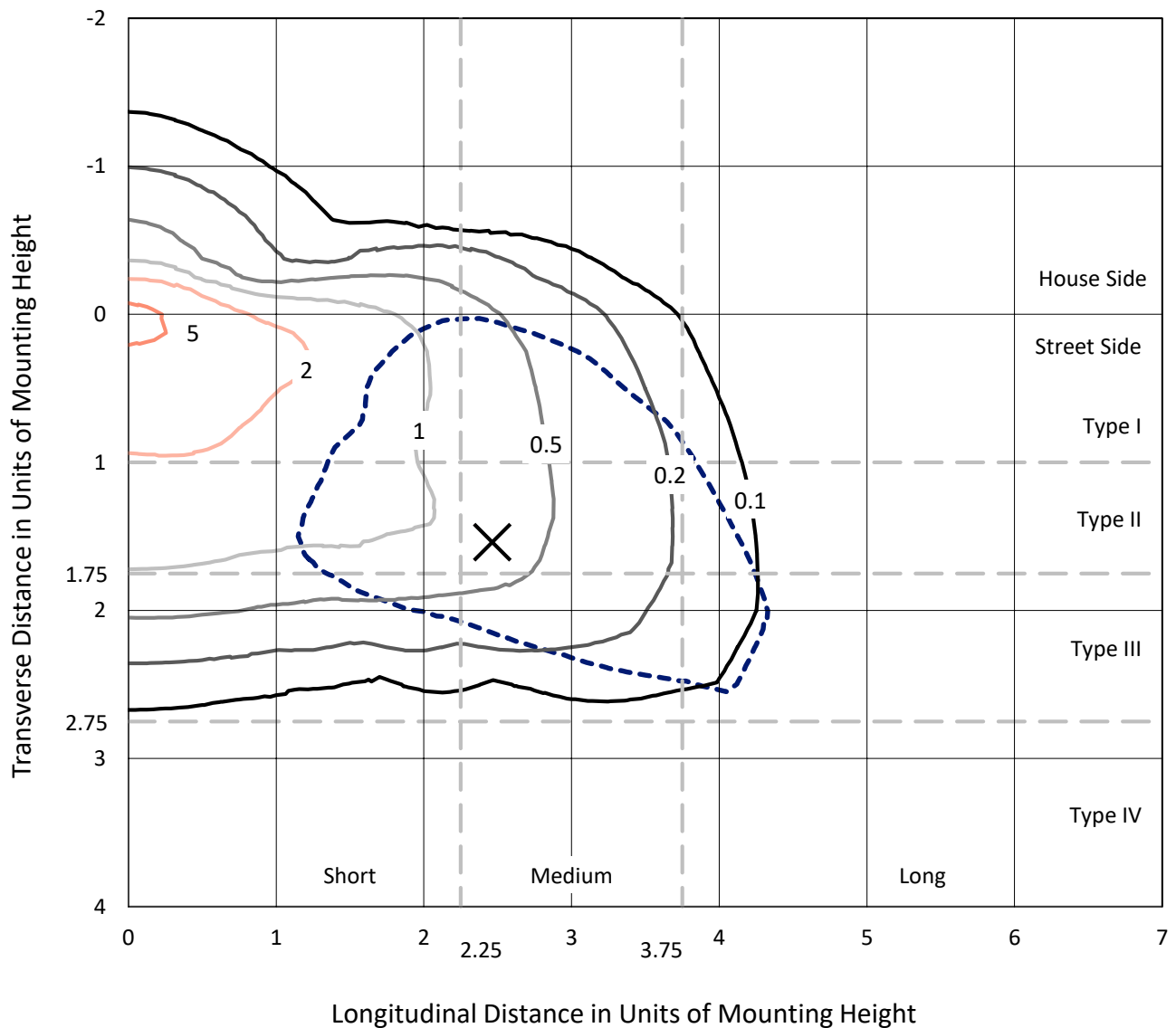
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319788
 CATALOG NUMBER: GLEON-SA4A-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

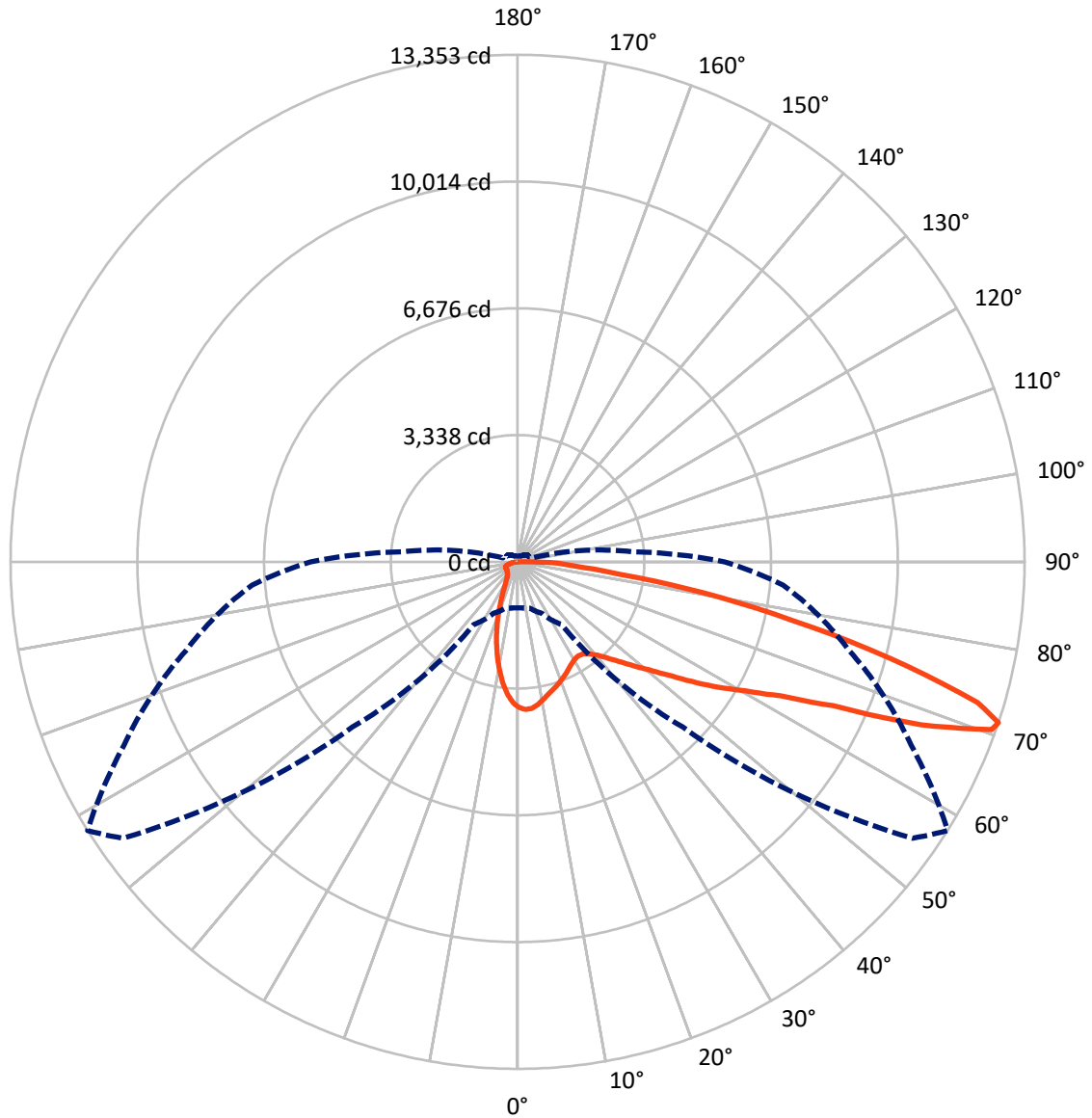
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P319788
CATALOG NUMBER: GLEON-SA4A-827-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2066.2	0.0	2066.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	11753.8	0.0	11753.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	13820.0	0.0	13820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.3	2.4
10°-20°	734.5	5.3
20°-30°	933.5	6.8
30°-40°	1189.1	8.6
40°-50°	1686.2	12.2
50°-60°	2609.5	18.9
60°-70°	3552.5	25.7
70°-80°	2369.9	17.1
80°-90°	414.3	3.0
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°	13820.0	100.0
0°-180°	13820.0	100.0

Coefficient of Utilization



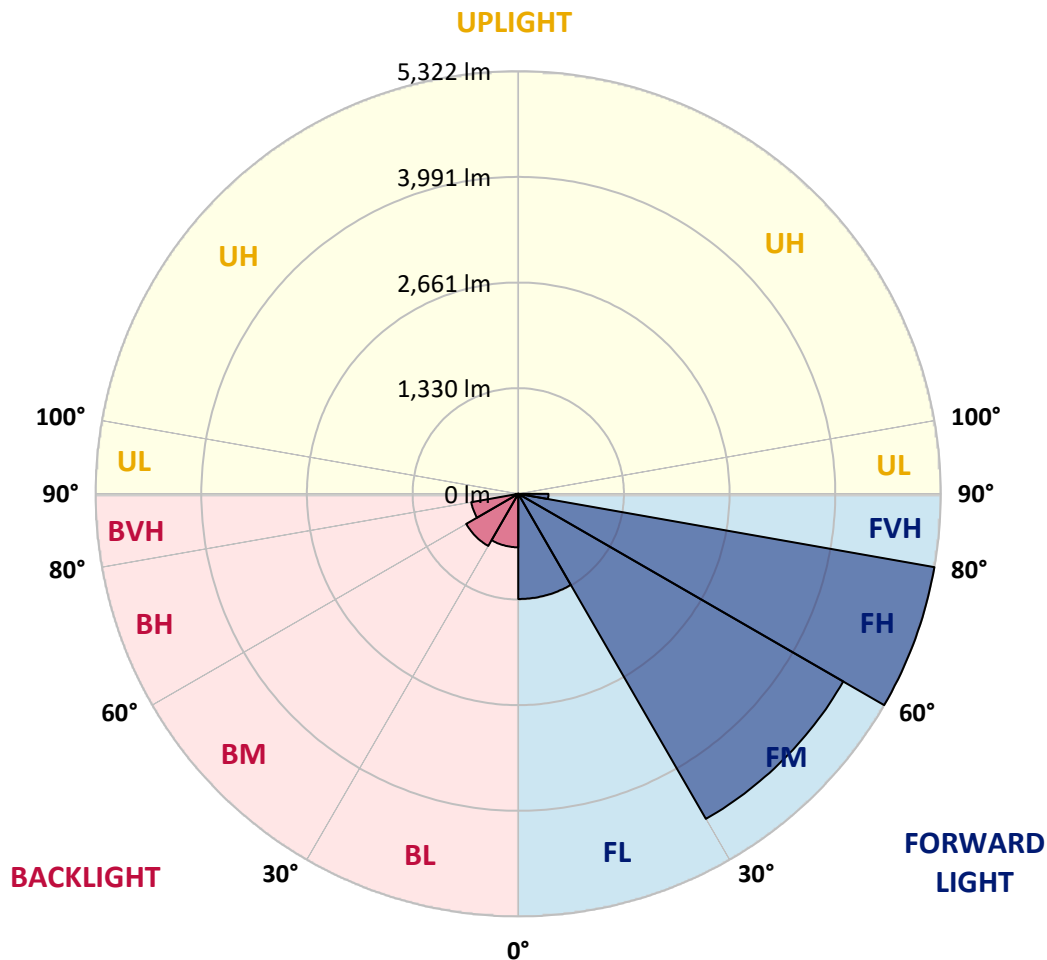
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.9	9.6			
FM (30°-60°)	4727.1	34.2			
FH (60°-80°)	5321.9	38.5			G3/7500
FVH (80°-90°)	379.9	2.7			G3/500
BL (0°-30°)	673.5	4.9	B2/1000		
BM (30°-60°)	757.7	5.5	B1/1000		
BH (60°-80°)	600.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	34.4	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°	58°	65°	75°	85°
0°	3829.1	3829.1	3829.1	3829.1	3829.1	3829.1	3829.1	3829.1	3829.1	3829.1	3829.1
2.5°	3930.6	3925.3	3927.3	3923.4	3914.3	3905.1	3891.6	3894.1	3875.3	3847.4	3812.7
5°	3856.5	3854.6	3869.0	3877.2	3883.9	3878.6	3874.8	3879.6	3852.2	3813.7	3753.5
7.5°	3701.0	3679.8	3698.1	3725.6	3751.6	3771.3	3797.3	3800.7	3783.3	3742.9	3663.9
10°	3480.0	3459.8	3486.8	3529.6	3581.6	3628.8	3681.3	3690.9	3694.3	3657.7	3561.9
12.5°	3250.9	3235.5	3262.5	3322.6	3408.8	3481.5	3565.3	3579.7	3609.5	3585.0	3467.5
15°	3045.8	3040.0	3072.8	3132.0	3231.2	3342.4	3463.2	3489.7	3540.2	3532.0	3393.9
17.5°	2868.7	2867.2	2892.3	2954.4	3064.1	3204.7	3361.6	3406.4	3481.5	3491.1	3333.2
20°	2736.8	2733.9	2751.2	2796.9	2910.1	3069.4	3251.9	3313.5	3421.8	3455.5	3270.6
22.5°	2666.0	2665.5	2666.0	2687.7	2780.1	2928.4	3145.0	3220.1	3363.5	3427.1	3201.3
25°	2654.0	2652.5	2641.9	2639.5	2692.0	2810.4	3039.1	3121.9	3308.2	3407.4	3135.4
27.5°	2685.3	2687.2	2673.2	2650.6	2661.2	2732.9	2947.1	3035.7	3263.9	3403.5	3089.6
30°	2750.2	2749.3	2737.2	2713.7	2693.0	2704.0	2881.7	2970.2	3234.1	3420.4	3058.3
32.5°	2822.0	2827.3	2824.9	2811.9	2781.1	2736.8	2861.9	2948.6	3225.4	3460.8	3044.9
35°	2908.1	2913.9	2931.3	2941.4	2905.3	2834.0	2904.3	2979.4	3250.4	3536.9	3066.5
37.5°	2990.0	3004.9	3053.5	3096.4	3065.6	2986.1	3016.9	3070.4	3327.9	3656.7	3124.8
40°	3084.3	3097.3	3176.8	3267.8	3262.9	3180.6	3198.4	3234.1	3464.6	3828.6	3230.2
42.5°	3177.2	3203.2	3318.3	3447.3	3484.4	3411.7	3440.1	3458.9	3657.2	4056.3	3414.1
45°	3301.0	3328.9	3488.7	3644.2	3730.9	3689.9	3735.2	3742.4	3899.3	4366.3	3681.3
47.5°	3488.2	3520.0	3706.3	3869.5	4001.9	4006.2	4080.8	4077.9	4201.7	4721.1	4017.8
50°	3780.0	3825.7	3978.3	4130.9	4291.7	4381.2	4480.9	4466.9	4564.2	5099.0	4405.3
52.5°	4162.2	4183.4	4296.5	4409.2	4608.9	4809.7	4952.7	4940.1	4975.3	5487.5	4845.3
55°	4558.4	4574.3	4621.0	4682.6	4951.2	5278.6	5580.9	5561.1	5472.1	5890.9	5280.0
57.5°	4914.6	4946.9	4979.1	5004.6	5295.9	5768.6	6223.6	6225.0	6011.3	6326.1	5729.2
60°	4970.0	4998.4	5211.6	5412.9	5885.6	6422.4	6911.5	6897.0	6569.2	6798.3	6229.8
62.5°	4393.3	4457.3	4813.5	5348.8	6453.7	7618.2	7789.1	7771.3	7236.4	7380.4	6812.8
65°	3148.4	3221.1	3650.9	4455.4	6178.3	8935.8	9372.9	9133.1	8146.3	8096.2	7495.4
67.5°	1816.3	1833.7	2020.0	2666.0	4704.3	9004.6	11789.0	11453.5	9559.2	8908.3	7829.5
70°	1343.1	1342.6	1386.9	1640.6	2545.6	7349.1	12938.1	13239.0	11046.7	9175.5	7357.3
71°	1214.6	1216.0	1265.6	1493.3	2016.1	6151.3	12694.1	13352.6	11438.6	9043.6	7015.5
72.5°	1038.9	1043.7	1112.5	1339.3	1696.0	4242.1	11642.7	12671.0	11624.4	8718.2	6480.6
75°	788.1	799.1	894.4	1128.9	1550.1	2151.4	8544.9	10118.1	10326.5	7692.8	4815.5
77.5°	562.3	574.8	682.6	949.3	1473.6	1621.4	5722.4	7380.4	7599.4	4930.0	2172.1
80°	355.3	370.2	451.6	755.3	1384.5	1539.5	3596.1	4960.8	4143.9	1577.6	552.6
82.5°	208.4	220.0	280.2	493.4	1130.8	1482.7	2115.8	2749.8	1612.7	476.6	251.3
85°	120.8	126.1	174.7	314.4	821.3	1399.4	1554.4	1537.1	700.0	233.0	118.9
87.5°	56.3	62.6	103.5	164.2	455.9	1014.3	1228.5	1061.5	435.2	109.3	55.8
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°	3829.1	3829.1	3829.1	3829.1	3829.1	3829.1	3829.1	3829.1	3829.1	3829.1	3829.1
2.5°	3795.8	3787.7	3753.5	3723.2	3691.4	3650.0	3604.2	3598.5	3570.6	3575.8	3566.2
5°	3720.7	3700.0	3617.7	3543.1	3455.0	3376.1	3290.4	3250.9	3194.1	3190.2	3175.8
7.5°	3613.4	3574.9	3447.3	3305.8	3164.2	3029.5	2896.1	2808.5	2719.0	2680.9	2677.6
10°	3492.6	3427.1	3239.3	3029.9	2825.8	2628.9	2438.3	2297.2	2170.2	2110.0	2107.6
12.5°	3378.0	3281.2	3023.7	2738.7	2459.5	2204.3	1942.9	1757.6	1598.3	1544.8	1522.2
15°	3280.7	3144.5	2813.8	2449.4	2110.5	1756.2	1458.6	1263.7	1116.4	1065.3	1055.7
17.5°	3186.4	3011.2	2598.6	2157.2	1747.5	1358.0	1060.0	915.1	836.7	816.0	815.5
20°	3092.5	2874.0	2373.8	1858.2	1396.5	1015.8	815.0	750.0	723.5	721.1	717.3
22.5°	2986.1	2728.6	2137.4	1558.3	1089.9	798.6	692.7	666.7	663.4	672.0	672.0
25°	2886.5	2584.2	1897.7	1264.6	847.7	666.3	618.6	613.3	622.5	637.9	639.3
27.5°	2793.6	2445.0	1663.7	1003.7	679.3	586.8	567.1	573.3	589.7	607.5	608.0
30°	2717.0	2313.6	1436.5	790.9	573.8	527.6	524.2	536.8	554.6	568.5	571.9
32.5°	2657.8	2201.4	1217.0	635.9	505.0	483.3	486.2	496.8	507.9	515.6	520.9
35°	2630.4	2105.2	1014.3	536.3	461.2	449.1	453.0	458.8	463.6	469.4	473.7
37.5°	2635.2	2030.5	833.3	474.2	431.8	425.6	425.6	425.6	425.6	428.4	428.9
40°	2680.0	1987.7	686.0	434.7	412.1	405.3	400.0	395.2	391.4	393.3	392.3
42.5°	2794.5	1983.9	578.2	409.7	396.2	385.1	374.5	367.8	363.0	364.9	365.9
45°	2989.0	2032.0	505.5	391.9	381.3	364.4	350.9	343.7	340.4	346.6	347.6
47.5°	3240.8	2136.9	461.2	378.9	367.3	345.2	330.7	324.0	324.9	334.1	336.5
50°	3565.3	2307.4	440.0	370.7	357.7	328.8	313.9	308.1	311.0	324.0	326.9
52.5°	3921.5	2552.9	442.4	368.3	351.4	316.8	300.9	294.1	299.0	311.0	313.4
55°	4332.6	2848.0	482.4	371.6	342.3	309.1	290.3	278.7	282.6	293.7	295.6
57.5°	4789.5	3185.9	562.8	370.7	330.7	301.8	279.2	261.9	264.8	271.5	273.4
60°	5265.1	3594.1	687.4	373.6	325.4	293.2	264.3	242.6	241.7	247.4	248.4
62.5°	5836.0	4066.4	829.9	375.5	328.8	282.1	244.6	223.4	220.5	221.9	222.9
65°	6424.3	4408.2	776.5	367.8	339.4	273.0	227.2	204.6	199.3	198.3	198.8
67.5°	6442.6	4041.8	544.5	352.4	343.7	268.1	214.2	188.7	180.0	176.7	176.2
70°	5777.8	3283.6	424.1	336.0	326.4	260.4	202.2	175.7	162.7	157.4	156.9
71°	5453.3	3022.7	402.0	327.8	313.4	252.7	196.9	169.9	156.5	150.7	149.7
72.5°	4944.5	2709.8	375.0	314.8	288.4	233.0	186.8	161.8	147.8	141.1	139.6
75°	3548.4	1772.0	322.1	280.7	238.8	185.8	163.7	145.4	133.3	125.2	124.2
77.5°	1367.2	705.3	243.6	233.5	182.9	145.4	134.8	125.6	117.0	108.8	108.3
80°	422.7	315.3	177.6	175.7	132.4	108.3	104.9	102.5	99.2	90.5	88.6
82.5°	225.8	181.0	122.3	113.6	86.7	72.2	76.1	77.0	77.5	68.4	67.4
85°	107.8	95.8	68.8	64.5	50.5	40.4	46.7	50.5	51.0	41.9	39.0
87.5°	51.5	50.1	32.3	24.6	18.8	13.5	16.4	20.2	22.1	15.9	14.0
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)