

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: P383085

Luminaire Tested: **GLEON-SA4B-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 20405.6 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

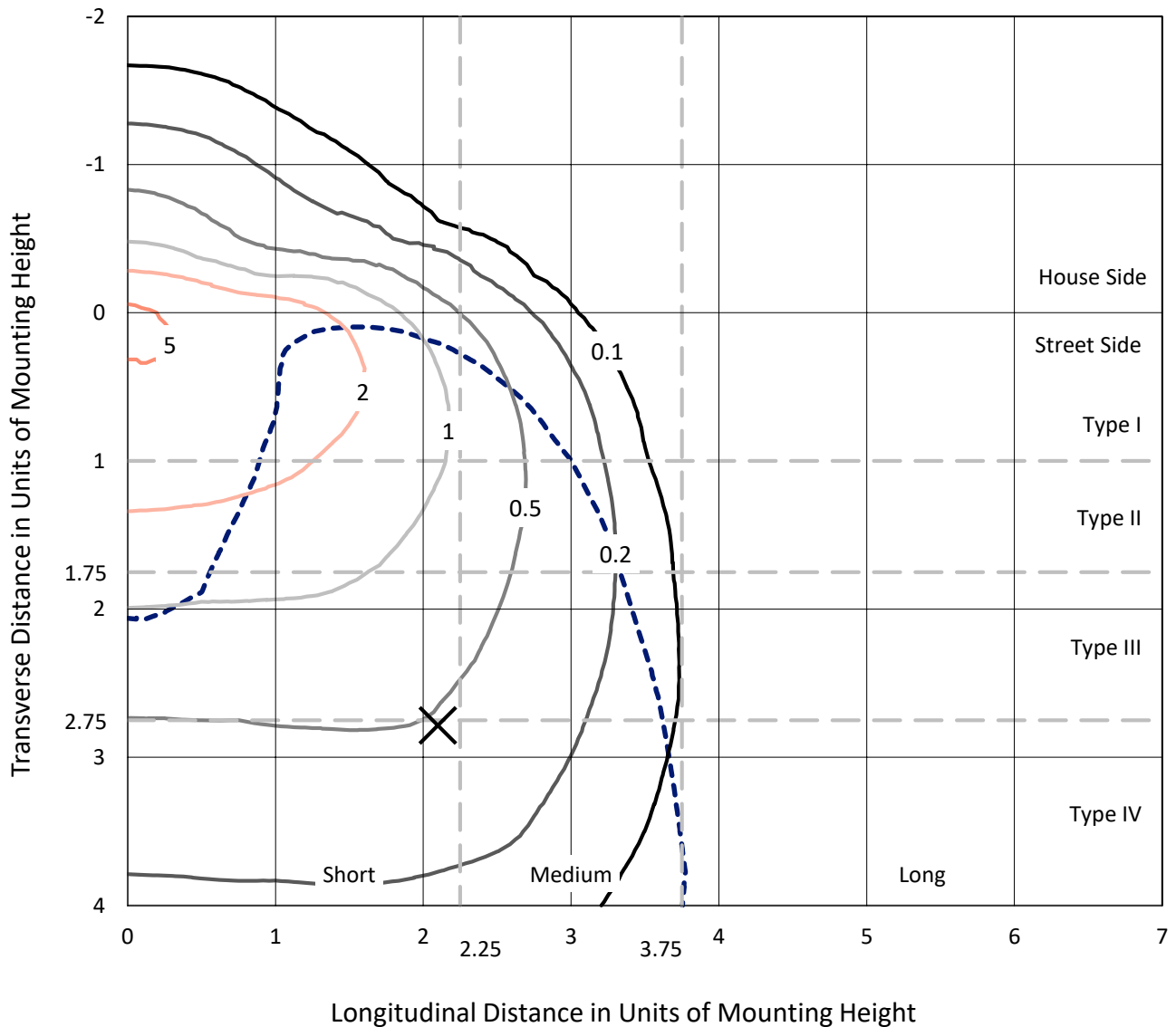
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

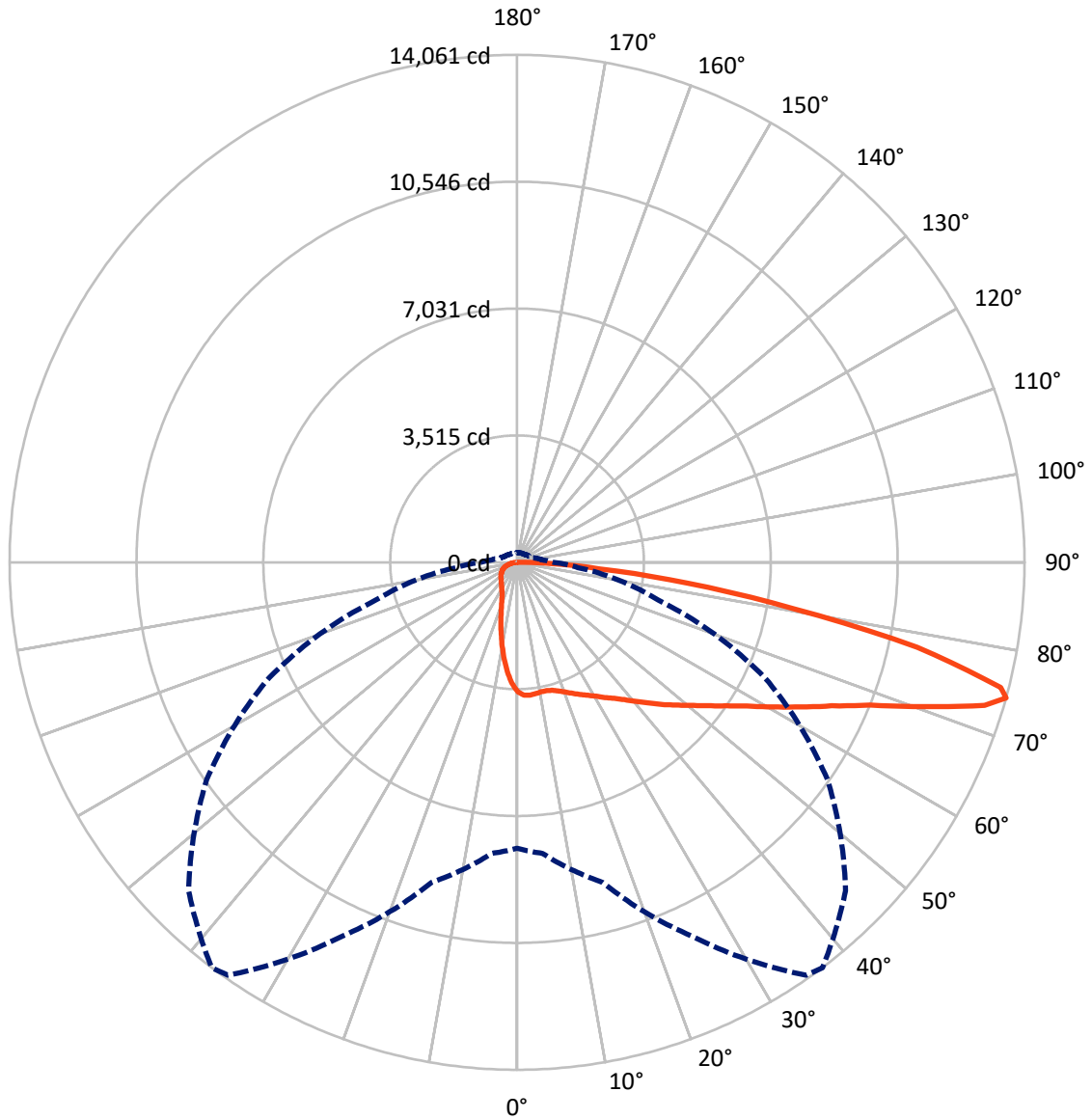
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2807.7	0.0	2807.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	17597.9	0.0	17597.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	20405.6	0.0	20405.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.6	1.6
10°-20°	811.6	4.0
20°-30°	1250.5	6.1
30°-40°	1818.4	8.9
40°-50°	2676.3	13.1
50°-60°	3758.4	18.4
60°-70°	4757.0	23.3
70°-80°	4188.7	20.5
80°-90°	828.2	4.1
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°	20405.6	100.0
0°-180°	20405.6	100.0

Coefficient of Utilization



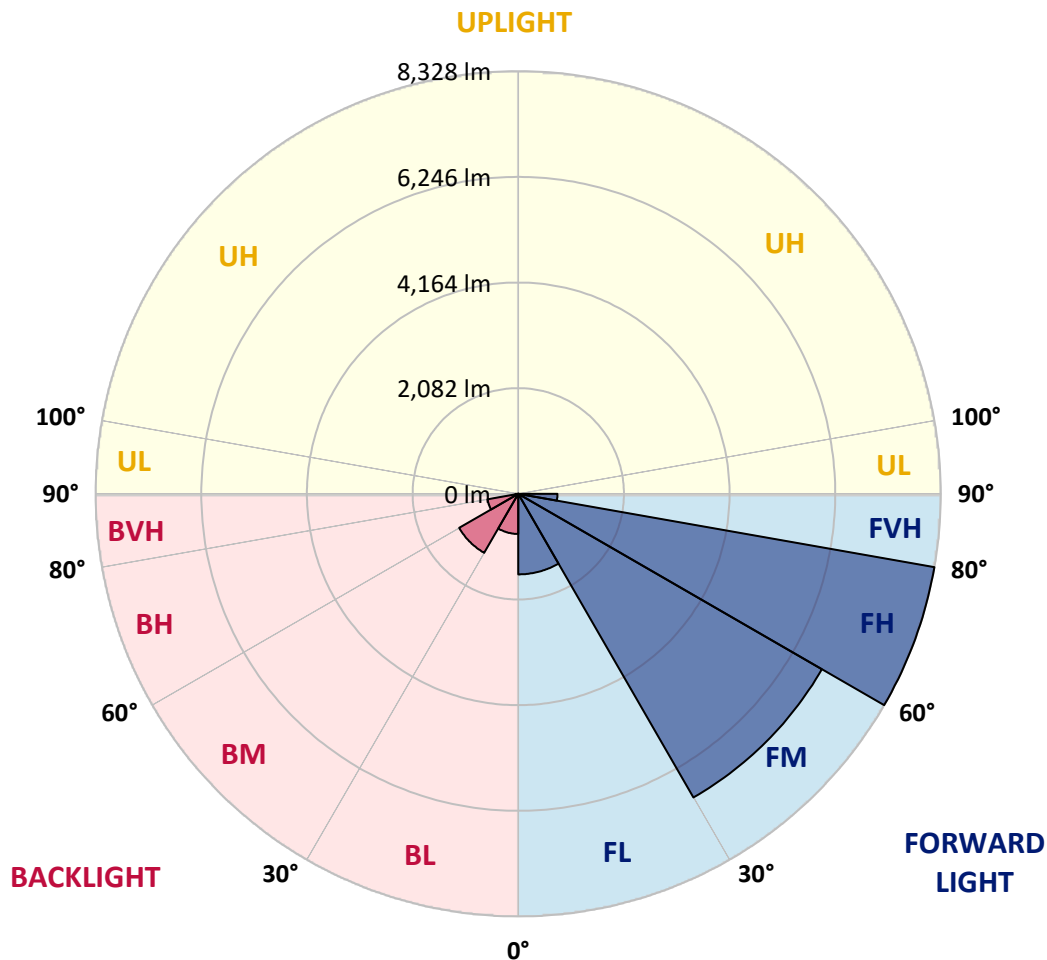
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1587.8	7.8			
FM (30°-60°)	6909.5	33.9			
FH (60°-80°)	8328.5	40.8			G4/12000
FVH (80°-90°)	772.1	3.8			G5
BL (0°-30°)	790.8	3.9	B2/1000		
BM (30°-60°)	1343.6	6.6	B2/2500		
BH (60°-80°)	617.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	56.1	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°	37°	45°	55°	65°	75°	85°
0°	3595.4	3595.4	3595.4	3595.4	3595.4	3595.4	3595.4	3595.4	3595.4	3595.4	3595.4
2.5°	3718.3	3719.0	3718.3	3712.5	3698.9	3687.3	3678.0	3664.4	3634.2	3611.2	3576.7
5°	3753.5	3749.2	3746.3	3735.5	3714.0	3701.0	3683.1	3657.2	3607.6	3561.6	3505.5
7.5°	3737.0	3732.0	3725.4	3712.5	3688.1	3677.3	3652.1	3618.4	3558.7	3498.3	3417.8
10°	3685.9	3684.6	3681.7	3678.8	3657.9	3649.2	3626.3	3590.4	3531.4	3458.1	3363.9
12.5°	3629.1	3632.8	3644.2	3659.3	3650.0	3645.7	3631.4	3606.9	3546.5	3467.4	3353.9
15°	3593.3	3603.3	3634.2	3673.7	3681.7	3680.2	3676.6	3660.8	3596.8	3509.1	3376.9
17.5°	3581.0	3597.5	3656.5	3721.9	3744.9	3749.9	3751.3	3724.0	3652.9	3560.2	3400.6
20°	3603.3	3624.1	3710.4	3800.2	3836.9	3839.7	3833.3	3785.9	3706.1	3604.0	3413.6
22.5°	3670.9	3689.6	3797.4	3898.7	3940.4	3944.7	3925.3	3853.4	3762.1	3655.8	3431.4
25°	3801.0	3823.9	3931.8	4033.1	4054.7	4055.4	4027.4	3938.2	3835.5	3728.3	3470.3
27.5°	3970.6	3993.5	4090.6	4189.8	4178.3	4171.8	4133.7	4044.6	3931.0	3828.3	3539.3
30°	4159.6	4184.8	4276.8	4347.3	4320.0	4307.0	4276.1	4161.0	4064.1	3964.9	3645.0
32.5°	4355.2	4378.2	4458.7	4506.8	4472.3	4466.6	4419.8	4314.9	4237.2	4173.2	3816.1
35°	4555.6	4572.2	4651.3	4678.6	4632.6	4631.2	4618.2	4521.9	4473.0	4503.2	4064.7
37.5°	4760.6	4764.9	4832.4	4833.9	4820.2	4826.0	4839.6	4779.2	4792.9	4887.1	4388.2
40°	4943.1	4954.6	5003.5	5018.6	5042.3	5062.4	5130.7	5091.2	5196.8	5363.6	4790.8
42.5°	5078.2	5100.5	5178.8	5217.7	5294.6	5326.2	5422.5	5459.2	5671.9	5922.1	5269.4
45°	5192.5	5227.0	5352.9	5432.6	5562.7	5618.1	5756.0	5879.0	6208.9	6528.0	5773.3
47.5°	5316.2	5360.0	5517.5	5669.8	5846.6	5909.2	6160.0	6344.0	6781.8	7137.6	6248.4
50°	5498.0	5531.8	5685.6	5925.0	6145.6	6226.2	6573.3	6837.1	7364.0	7718.3	6660.3
52.5°	5751.7	5738.8	5868.9	6204.6	6500.7	6599.9	7014.6	7361.8	7954.1	8243.8	7008.2
55°	6006.9	5985.4	6076.7	6497.2	6914.8	7018.9	7500.5	7888.7	8515.5	8716.8	7274.8
57.5°	6290.8	6249.8	6326.8	6827.0	7386.2	7510.6	8044.7	8448.7	9067.5	9099.2	7444.5
60°	6583.3	6528.0	6614.3	7236.1	7985.0	8131.7	8681.6	8994.9	9588.0	9405.4	7499.1
62.5°	6839.2	6800.5	6933.4	7692.4	8659.9	8821.0	9306.9	9575.7	10101.1	9532.5	7302.2
65°	7062.8	7069.3	7299.3	8205.7	9412.5	9584.3	10024.2	10291.6	10505.1	9457.1	6841.5
67.5°	7329.5	7366.1	7758.6	8881.4	10359.9	10548.2	11067.9	11072.2	10730.8	9014.3	5934.3
70°	7718.3	7793.8	8390.4	9818.6	11706.9	11965.6	12366.8	11530.8	10413.8	7813.9	4669.3
72.5°	8063.4	8204.2	9062.5	10891.1	13348.6	13544.9	13126.5	11266.3	9089.1	5856.0	2908.9
74°	7923.2	8097.9	9184.7	11419.4	13966.8	14061.0	12869.9	10494.3	7578.1	4055.4	1690.6
75°	7621.3	7811.0	9006.4	11414.3	13888.4	13836.0	12250.3	9612.4	6241.3	2765.9	1124.9
77.5°	6150.6	6351.2	7588.9	9782.7	11387.8	11338.1	9410.4	6448.3	2733.5	907.1	571.4
80°	3575.9	3729.1	4710.9	6212.5	7678.8	7768.6	6188.7	3190.7	1075.3	509.6	387.4
82.5°	1588.6	1694.2	2275.7	3171.3	4634.0	4749.8	3241.0	1671.9	664.2	309.8	232.9
85°	1042.2	1120.6	1381.5	1510.1	2206.6	2285.7	1586.3	1301.7	438.5	170.4	171.0
87.5°	749.7	825.2	1026.5	896.3	1012.8	958.8	863.3	1204.7	176.1	97.1	57.5
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°	3595.4	3595.4	3595.4	3595.4	3595.4	3595.4	3595.4	3595.4	3595.4	3595.4	3595.4
2.5°	3561.6	3550.1	3524.2	3475.3	3448.0	3425.0	3386.9	3364.7	3354.6	3353.9	3358.1
5°	3473.2	3446.6	3379.7	3297.8	3232.4	3172.8	3098.7	3054.2	3022.5	3003.8	3008.8
7.5°	3370.4	3328.7	3223.8	3092.9	2988.0	2872.2	2758.0	2689.8	2636.6	2597.0	2604.1
10°	3299.9	3242.4	3089.4	2901.0	2726.4	2558.1	2400.8	2306.6	2231.8	2174.3	2178.6
12.5°	3276.3	3198.6	2986.5	2735.0	2489.8	2259.8	2054.3	1909.9	1832.9	1767.5	1772.5
15°	3279.8	3175.6	2900.3	2585.5	2277.1	1987.5	1738.0	1569.1	1464.9	1419.6	1420.3
17.5°	3282.7	3149.0	2809.7	2425.2	2066.5	1733.0	1462.0	1290.9	1192.5	1150.7	1151.5
20°	3273.4	3105.9	2697.6	2241.2	1846.6	1499.4	1237.0	1091.9	1017.1	984.7	984.7
22.5°	3261.2	3054.8	2571.1	2056.5	1629.5	1296.7	1076.0	965.4	922.2	900.6	900.0
25°	3266.9	3016.7	2441.7	1866.7	1429.6	1135.0	968.9	895.6	866.9	853.2	852.5
27.5°	3297.8	2998.7	2322.4	1677.6	1255.0	1013.5	897.1	845.3	826.6	818.0	818.0
30°	3353.9	2998.7	2198.1	1516.7	1109.8	923.6	841.7	806.4	793.6	787.8	787.8
32.5°	3451.7	3015.3	2078.0	1357.1	994.1	853.2	795.7	772.0	761.9	759.0	759.0
35°	3619.8	3071.4	1960.8	1206.2	900.6	795.7	751.9	738.2	731.0	730.3	732.5
37.5°	3856.3	3185.7	1850.9	1094.8	834.5	749.0	715.1	704.4	700.1	703.7	706.6
40°	4153.9	3340.9	1750.9	994.1	784.2	711.6	681.4	674.3	672.1	677.1	681.4
42.5°	4513.3	3550.8	1669.1	921.5	745.4	679.9	652.6	644.1	641.8	647.6	653.4
45°	4902.2	3776.5	1611.5	867.6	715.1	656.3	627.5	618.2	613.9	616.7	623.2
47.5°	5255.8	3990.0	1588.6	829.4	686.5	636.2	605.2	593.7	586.5	585.1	590.1
50°	5554.1	4148.8	1599.3	806.4	663.4	613.9	583.6	570.8	560.0	553.4	557.1
52.5°	5771.1	4248.8	1609.3	796.4	645.5	589.4	560.0	547.7	533.3	522.6	522.6
55°	5928.6	4271.8	1587.1	788.6	631.8	562.8	533.3	521.9	507.5	495.2	493.8
57.5°	5990.4	4207.1	1504.4	777.0	622.5	537.7	505.3	496.7	484.5	470.1	469.4
60°	5907.0	4007.2	1344.9	752.6	610.3	516.8	477.2	471.5	465.8	452.1	451.4
62.5°	5572.1	3568.8	1138.5	702.9	585.9	494.6	451.4	454.3	455.0	445.7	444.3
65°	4964.7	2966.4	937.3	638.3	549.1	467.9	424.8	438.5	446.4	444.9	442.8
67.5°	4082.0	2308.7	794.2	570.0	501.0	431.3	396.1	411.8	418.4	423.4	421.9
70°	3029.7	1628.1	656.9	498.1	442.8	388.2	358.6	366.6	362.3	368.1	370.2
72.5°	1689.2	976.8	535.5	426.3	382.4	337.9	317.0	315.5	306.2	306.2	306.2
74°	1013.5	716.6	470.8	381.7	345.7	304.8	286.8	280.3	271.7	272.4	271.7
75°	815.1	616.0	432.0	352.2	319.9	285.3	267.4	258.8	252.3	252.3	251.6
77.5°	514.7	467.9	347.9	280.3	255.9	235.0	222.8	211.4	211.4	210.6	209.9
80°	388.8	372.3	271.0	212.0	196.2	180.4	172.5	167.5	167.5	169.6	168.9
82.5°	266.7	280.3	190.5	148.1	140.2	128.6	127.2	127.9	125.8	122.9	122.2
85°	194.8	210.6	128.6	93.4	85.5	78.3	84.1	87.0	83.4	76.9	74.1
87.5°	74.7	138.0	69.0	38.8	36.0	30.9	36.0	37.4	40.2	31.7	32.3
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)