

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: P318538

Luminaire Tested: **GLEON-SA4D-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4D-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23014 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

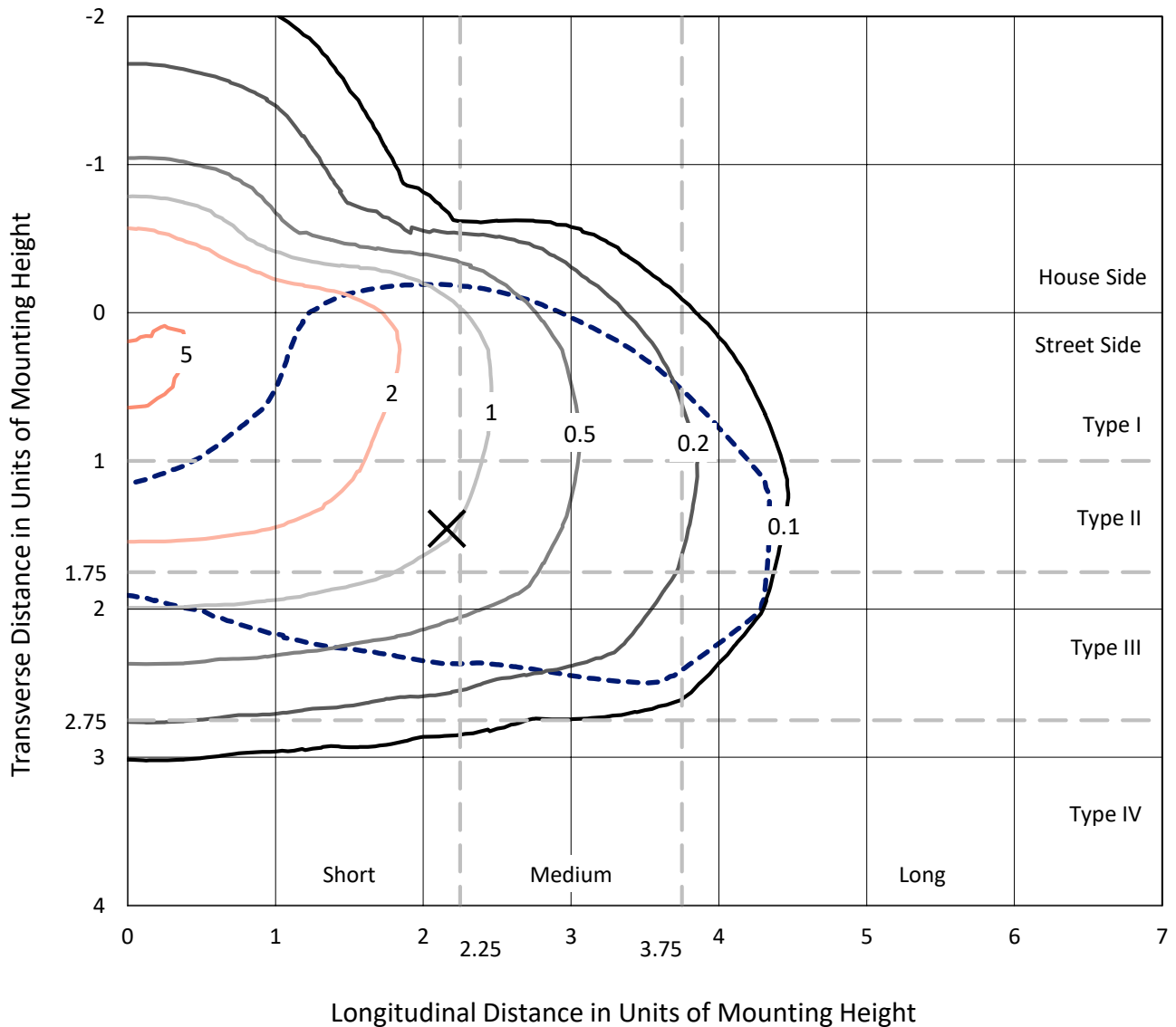
Input Watts (W): 258
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

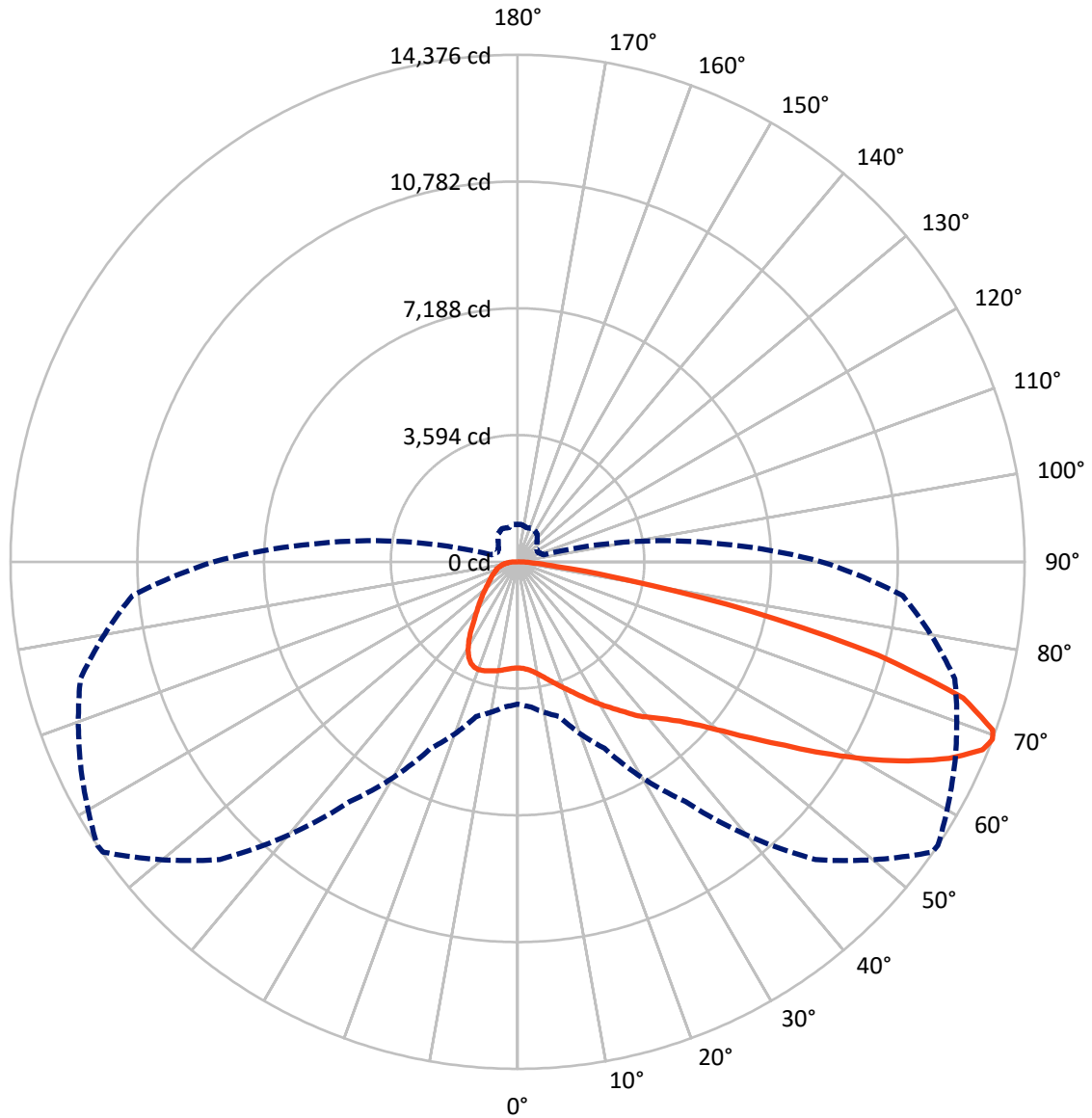
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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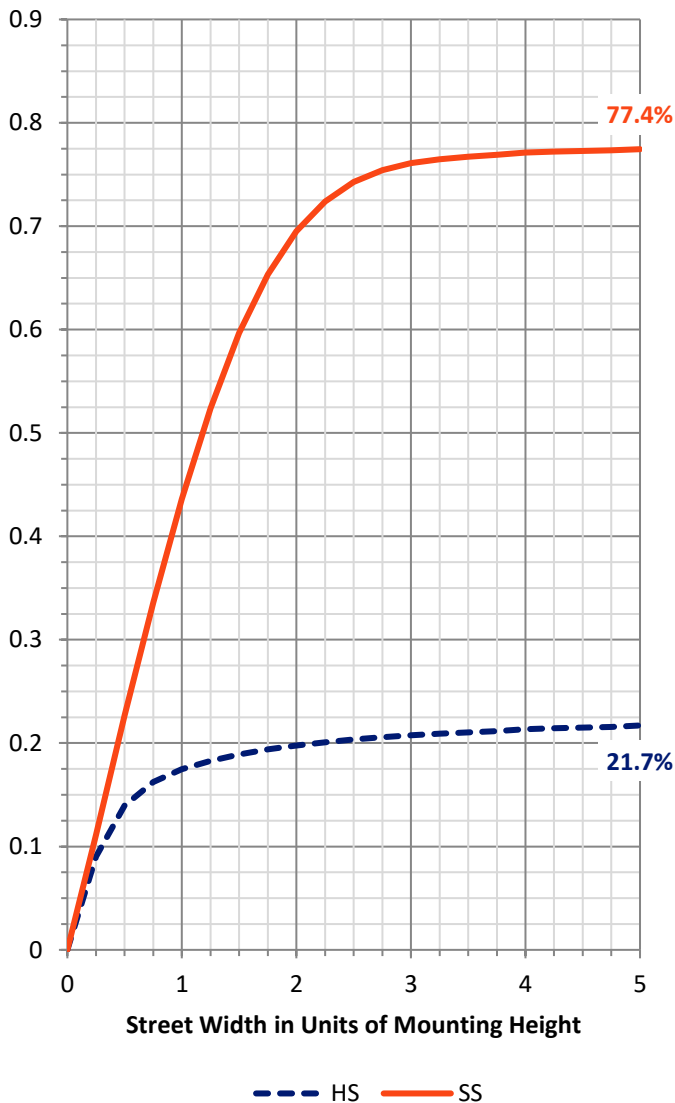
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5125.2	0.0	5125.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	17888.8	0.0	17888.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	23014.0	0.0	23014.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	1.3
10°-20°	950.2	4.1
20°-30°	1658.7	7.2
30°-40°	2382.7	10.4
40°-50°	3297.5	14.3
50°-60°	4831.4	21.0
60°-70°	5890.3	25.6
70°-80°	3256.6	14.2
80°-90°	451.0	2.0
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°	23014.0	100.0
0°-180°	23014.0	100.0

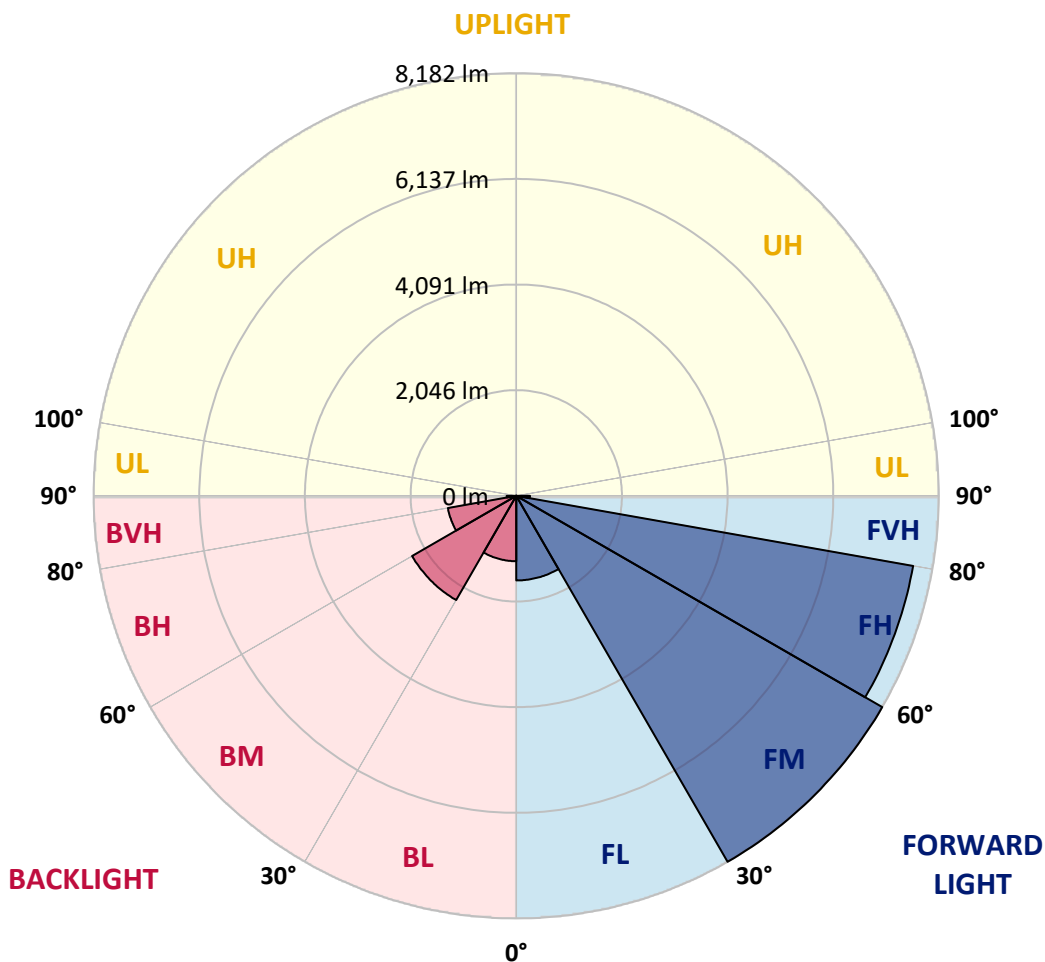


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1637.9	7.1			
FM (30°-60°)	8182.3	35.6			
FH (60°-80°)	7802.9	33.9			G4/12000
FVH (80°-90°)	265.7	1.2			G3/500
BL (0°-30°)	1266.5	5.5	B3/2500		
BM (30°-60°)	2329.3	10.1	B2/2500		
BH (60°-80°)	1344.0	5.8	B3/2500		G3/2500
BVH (80°-90°)	185.4	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7
2.5°	3027.8	3030.9	3028.6	3034.9	3027.8	3032.5	3028.6	3028.6	3026.2	3019.0	3011.1
5°	3075.3	3081.7	3077.7	3084.1	3075.3	3076.9	3069.8	3069.8	3062.6	3047.6	3031.7
7.5°	3149.9	3157.0	3153.8	3160.2	3148.3	3148.3	3138.8	3138.0	3123.7	3099.1	3080.9
10°	3238.7	3248.2	3245.0	3254.5	3245.0	3248.2	3238.7	3238.7	3219.6	3184.7	3161.7
12.5°	3367.9	3379.8	3371.1	3370.3	3366.3	3372.6	3364.7	3363.1	3345.7	3298.1	3266.4
15°	3540.7	3553.4	3535.2	3533.6	3511.4	3509.0	3509.0	3506.6	3495.5	3438.4	3386.1
17.5°	3739.7	3743.7	3727.8	3702.4	3673.9	3655.7	3653.3	3659.6	3659.6	3593.0	3509.8
20°	3934.7	3941.9	3929.2	3900.7	3864.2	3837.2	3818.2	3830.9	3830.1	3750.8	3632.7
22.5°	4147.2	4163.9	4144.8	4108.4	4065.6	4035.4	4002.1	4013.2	4014.0	3916.5	3753.2
25°	4422.3	4407.3	4395.4	4343.8	4282.8	4251.9	4220.9	4232.0	4228.9	4094.9	3877.7
27.5°	4665.7	4668.9	4653.0	4598.3	4527.8	4459.6	4458.0	4465.1	4453.2	4280.4	3995.0
30°	4948.8	4950.3	4928.1	4879.0	4802.1	4714.1	4693.5	4705.4	4680.0	4456.4	4118.7
32.5°	5230.2	5238.1	5213.6	5154.1	5092.3	4985.2	4944.0	4951.9	4888.5	4636.4	4246.3
35°	5476.8	5487.9	5479.9	5440.3	5372.9	5280.9	5231.8	5227.0	5148.5	4856.8	4415.2
37.5°	5728.1	5738.4	5729.7	5696.4	5669.4	5571.9	5545.7	5545.7	5409.4	5081.9	4630.0
40°	5986.5	6002.4	5992.1	5946.1	5923.1	5878.7	5816.1	5801.0	5653.6	5352.3	4980.5
42.5°	6226.8	6247.4	6288.6	6261.7	6214.9	6221.2	6095.2	6087.2	5979.4	5751.9	5420.5
45°	6567.7	6597.8	6667.6	6647.0	6637.4	6602.6	6452.7	6445.6	6404.4	6289.4	5966.7
47.5°	6939.5	6980.7	7106.8	7110.8	7213.0	7147.2	6943.5	6918.9	6928.4	6933.2	6633.5
50°	7282.0	7327.2	7534.1	7631.6	7872.7	7886.9	7561.1	7538.9	7576.1	7685.6	7410.4
52.5°	7555.5	7612.6	7871.1	8172.3	8585.4	8702.7	8321.4	8304.7	8332.5	8521.2	8288.9
55°	7756.1	7818.0	8099.4	8648.0	9307.7	9514.6	9196.7	9180.8	9198.2	9438.5	9244.2
57.5°	7802.9	7818.0	8226.3	8968.3	9917.3	10414.4	10267.8	10236.0	10150.4	10359.7	10298.7
60°	7583.3	7643.5	8121.6	9080.9	10389.1	11301.6	11387.2	11347.6	11107.3	11278.6	11229.4
62.5°	7137.7	7245.5	7730.7	8909.7	10573.8	12026.2	12485.3	12437.7	12023.8	12134.8	11898.6
65°	6409.9	6455.9	6965.7	8319.0	10339.1	12490.0	13464.4	13440.6	12919.7	12746.1	12022.3
67.5°	5108.1	5194.5	5627.4	7084.6	9379.0	12435.3	14221.5	14219.1	13504.8	12972.8	11583.8
69°	4035.4	4125.0	4537.3	5835.9	8299.2	11935.0	14348.4	14376.1	13669.7	12834.9	10957.5
70°	3217.2	3321.1	3604.1	4915.5	7340.7	11275.4	14242.9	14292.9	13638.0	12607.3	10379.5
72.5°	1369.2	1453.2	1654.6	2533.8	4473.9	8419.7	13022.8	13211.5	12903.1	11538.6	8578.3
75°	597.8	623.9	715.1	1033.0	1986.0	4582.5	10201.9	10550.8	11032.8	9753.2	6390.1
77.5°	437.6	448.7	498.7	606.5	891.1	1730.7	6560.5	6763.5	7956.7	7097.3	3919.7
80°	338.5	346.5	385.3	445.6	581.9	700.1	2992.1	3166.5	4473.9	3645.4	1632.4
82.5°	269.6	275.1	302.1	328.2	402.0	424.2	993.4	1102.0	1651.4	1006.9	432.1
85°	250.5	256.9	266.4	239.4	257.7	248.9	429.7	449.5	498.7	395.6	180.8
87.5°	113.4	134.0	264.0	186.3	137.2	109.4	176.0	183.9	206.9	207.7	80.1
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°	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7	3008.7
2.5°	3015.9	3013.5	3017.5	3007.9	3019.8	3019.0	3015.1	3016.7	3024.6	3023.8	3024.6
5°	3034.1	3032.5	3037.3	3030.1	3044.4	3049.2	3050.0	3057.1	3065.8	3068.2	3068.2
7.5°	3080.1	3080.1	3082.5	3073.0	3082.5	3081.7	3077.7	3084.8	3093.6	3094.4	3093.6
10°	3159.4	3160.2	3156.2	3131.6	3123.7	3102.3	3082.5	3083.3	3094.4	3103.1	3105.5
12.5°	3259.3	3256.1	3238.7	3193.5	3160.2	3116.6	3095.9	3095.2	3106.3	3113.4	3115.8
15°	3373.4	3364.7	3319.5	3245.8	3187.1	3144.3	3111.0	3103.1	3096.7	3088.8	3089.6
17.5°	3481.3	3461.4	3386.1	3283.8	3222.0	3164.9	3100.7	3049.2	3013.5	2992.9	2986.5
20°	3590.7	3551.8	3443.2	3319.5	3241.0	3137.2	3013.5	2908.8	2843.8	2813.7	2808.2
22.5°	3690.6	3627.9	3496.3	3356.8	3226.0	3043.6	2849.4	2697.2	2606.8	2566.3	2569.5
25°	3788.1	3700.9	3551.8	3382.9	3149.9	2878.7	2621.0	2433.9	2329.3	2284.1	2282.5
27.5°	3873.7	3774.6	3612.1	3361.5	3007.9	2644.0	2350.7	2168.3	2081.1	2042.3	2035.9
30°	3972.0	3867.4	3692.1	3279.9	2800.2	2372.9	2086.7	1958.3	1896.4	1857.6	1850.4
32.5°	4091.7	3993.4	3757.9	3131.6	2534.6	2089.9	1880.6	1791.0	1734.7	1691.1	1683.1
35°	4266.1	4159.9	3774.6	2919.1	2242.9	1866.3	1729.1	1637.2	1561.1	1504.8	1499.2
37.5°	4485.0	4368.4	3736.5	2644.0	1959.8	1721.2	1603.1	1489.7	1390.6	1311.3	1298.6
40°	4800.5	4624.5	3631.1	2326.9	1751.3	1609.4	1480.2	1351.0	1228.1	1135.3	1117.1
42.5°	5179.5	4925.0	3469.4	2011.4	1598.3	1496.0	1358.1	1197.9	1080.6	1014.8	1005.3
45°	5661.5	5237.3	3245.0	1735.5	1447.7	1382.7	1226.5	1079.0	1006.1	957.7	949.8
47.5°	6211.7	5587.8	3009.5	1511.1	1320.0	1276.4	1121.0	1025.9	968.0	930.0	922.8
50°	6888.0	5983.4	2759.8	1327.2	1191.6	1148.8	1071.1	996.6	950.6	921.3	914.1
52.5°	7650.7	6429.7	2579.8	1182.1	1085.4	1054.4	1044.9	980.7	943.5	921.3	914.1
55°	8472.0	6884.0	2385.6	1060.0	993.4	1002.1	1027.5	982.3	956.9	930.0	919.7
57.5°	9294.2	7353.4	2169.1	956.9	920.5	963.3	1015.6	985.5	964.1	937.9	928.4
60°	9944.3	7650.7	1833.8	870.5	862.6	920.5	987.1	961.7	933.9	934.7	933.1
62.5°	10247.9	7634.8	1463.5	793.6	804.7	862.6	941.1	924.4	901.4	932.4	934.7
65°	10077.5	7254.3	1139.3	723.8	742.9	802.3	893.5	906.2	914.1	973.6	981.5
67.5°	9362.4	6513.8	882.4	662.8	686.6	761.1	898.3	987.1	997.4	1060.0	1059.2
69°	8622.7	5819.3	766.7	631.1	658.8	771.4	960.1	1038.6	999.7	1066.3	1056.8
70°	8002.7	5269.8	704.8	609.7	646.1	789.6	1001.3	1037.8	987.8	1044.9	1029.1
72.5°	6163.3	3791.2	597.8	570.0	603.3	755.6	1013.2	1014.8	960.1	971.2	944.2
75°	4227.3	2395.9	521.7	516.1	538.3	681.0	975.2	969.6	888.0	872.1	849.9
77.5°	2330.9	1217.0	443.2	464.6	479.7	603.3	886.4	878.4	811.1	777.8	769.8
80°	899.1	532.8	374.2	413.1	422.6	522.5	777.0	769.8	713.5	670.7	658.8
82.5°	339.3	279.1	309.2	357.6	354.4	431.3	658.0	654.1	599.4	536.7	517.7
85°	157.0	167.3	245.0	294.9	271.9	319.5	526.4	533.6	467.0	392.4	392.4
87.5°	66.6	93.6	173.6	222.8	183.1	215.6	386.1	368.7	338.5	234.7	220.4
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)