

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: P194417

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL2-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34347 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 290
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

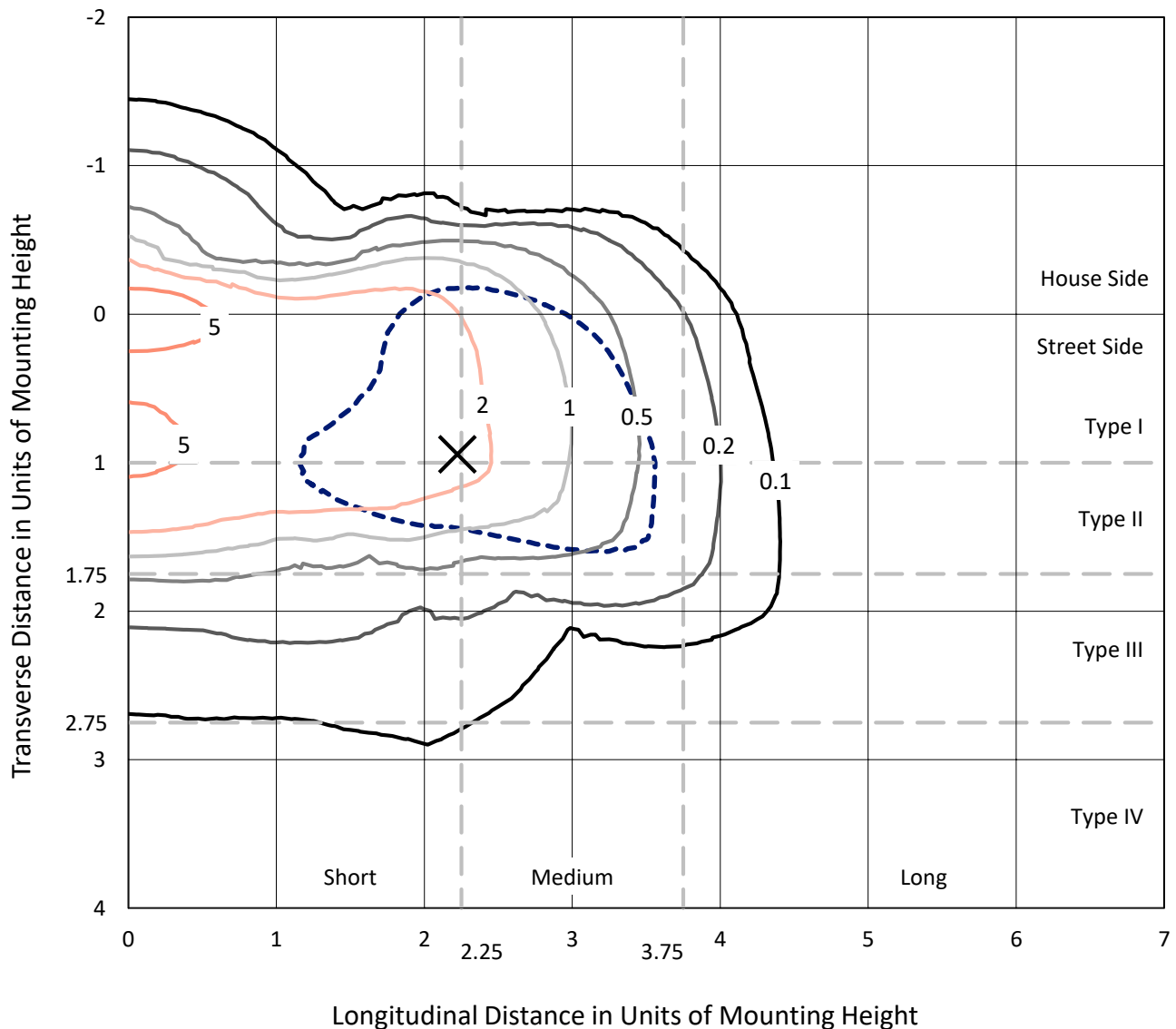


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

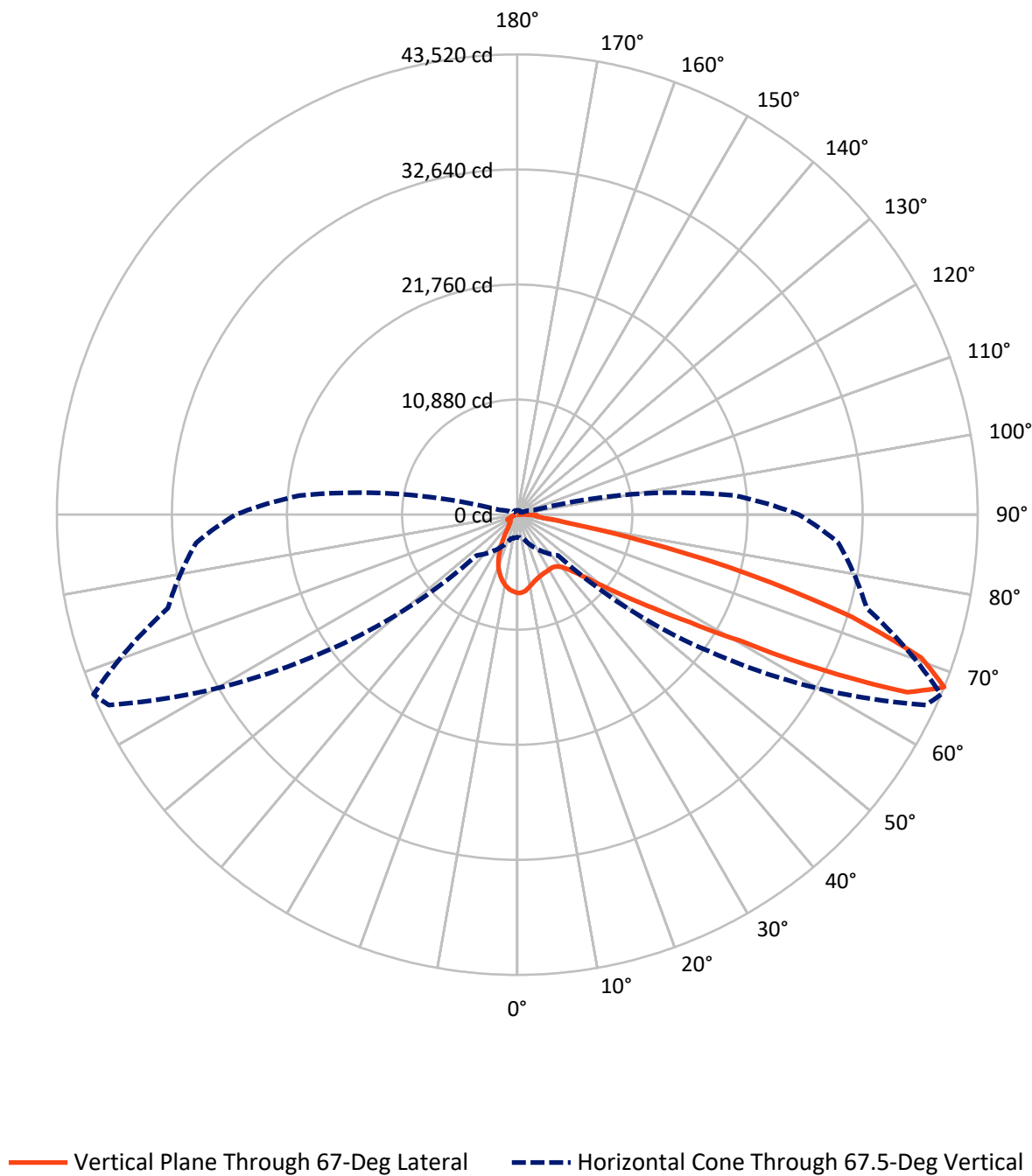


Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5690.9	0.0	5690.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	28656.1	0.0	28656.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	34347.0	0.0	34347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.1	1.8
10°-20°	1462.5	4.3
20°-30°	1982.4	5.8
30°-40°	2818.2	8.2
40°-50°	4715.0	13.7
50°-60°	7459.1	21.7
60°-70°	9502.2	27.7
70°-80°	4977.2	14.5
80°-90°	798.3	2.3
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°	34347.0	100.0
0°-180°	34347.0	100.0

Coefficient of Utilization



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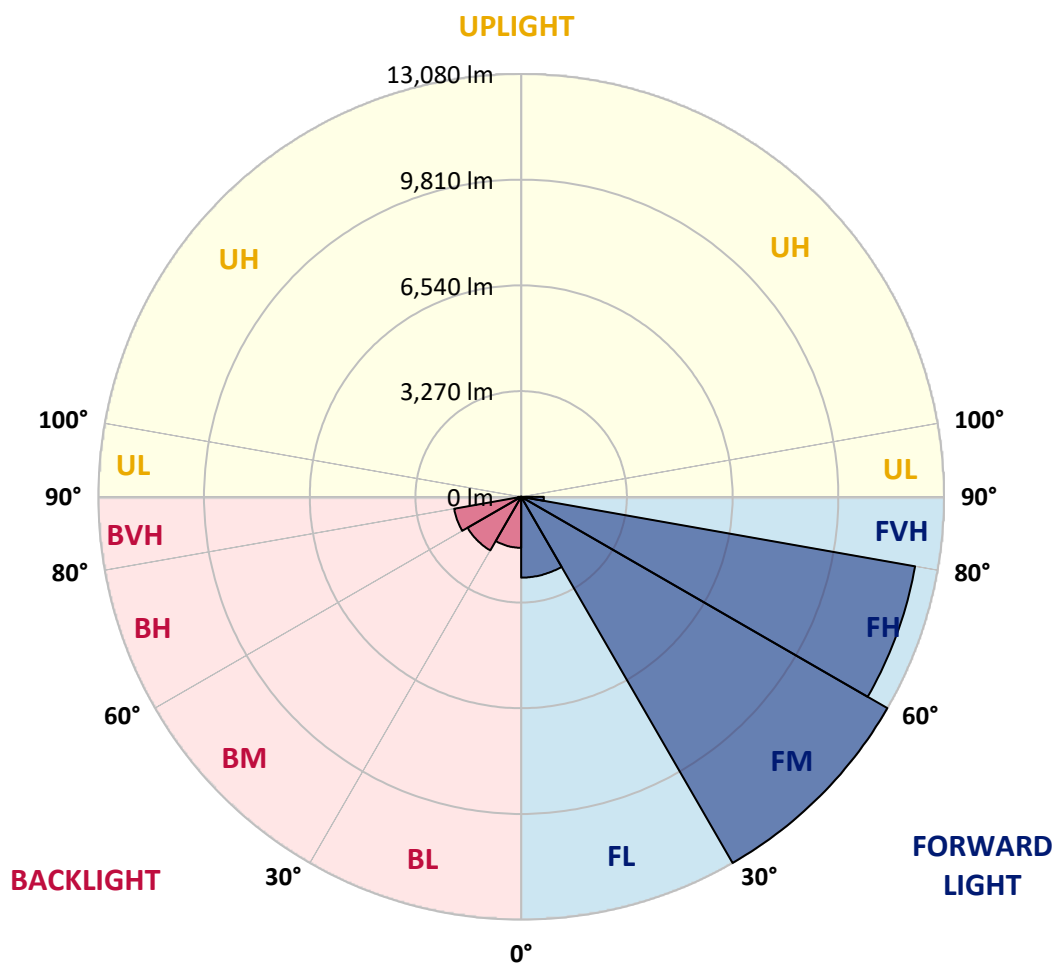
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2499.6	7.3			
FM	(30°-60°)	13080.0	38.1			
FH	(60°-80°)	12374.5	36.0			G5
FVH	(80°-90°)	701.9	2.0			G4/750
BL	(0°-30°)	1577.4	4.6	B3/2500		
BM	(30°-60°)	1912.3	5.6	B2/2500		
BH	(60°-80°)	2104.9	6.1	B3/2500		G3/2500
BVH	(80°-90°)	96.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7408.6	7408.6	7408.6	7408.6	7408.6	7408.6	7408.6	7408.6	7408.6	7408.6	7408.6
2.5°	7103.7	7115.5	7152.8	7176.5	7283.2	7329.0	7361.1	7393.3	7398.4	7413.6	7398.4
5°	6358.4	6383.8	6453.3	6531.2	6737.8	6900.4	7071.5	7249.3	7281.5	7396.7	7428.9
7.5°	5780.8	5774.1	5831.7	5924.8	6136.5	6361.8	6661.6	7015.6	7085.1	7344.2	7469.5
10°	5359.1	5354.0	5415.0	5511.5	5713.1	5926.5	6265.3	6749.7	6847.9	7261.2	7508.5
12.5°	5047.4	5049.1	5110.1	5216.8	5421.8	5636.9	5980.7	6492.2	6617.6	7164.7	7549.1
15°	4840.8	4854.4	4903.5	5017.0	5216.8	5431.9	5769.0	6299.1	6439.7	7088.4	7594.9
17.5°	4771.4	4793.4	4810.3	4893.3	5064.4	5279.5	5609.8	6156.9	6305.9	7035.9	7635.5
20°	4835.7	4861.1	4828.9	4857.7	4966.1	5155.8	5484.4	6045.1	6197.5	6976.7	7640.6
22.5°	5111.8	5135.5	5040.7	4957.7	4950.9	5066.1	5381.1	5957.0	6114.5	6932.6	7642.3
25°	5597.9	5613.2	5453.9	5260.9	5072.9	5033.9	5308.3	5896.0	6063.7	6893.7	7610.1
27.5°	6194.1	6206.0	6023.1	5738.5	5360.8	5110.1	5282.9	5860.5	6034.9	6859.8	7555.9
30°	6919.1	6975.0	6729.4	6370.3	5819.8	5335.4	5333.7	5841.8	6002.7	6802.2	7449.2
32.5°	7660.9	7684.6	7515.3	7151.1	6438.0	5731.7	5476.0	5855.4	5994.3	6732.7	7313.7
35°	8413.0	8443.5	8333.4	8040.3	7283.2	6312.7	5753.7	5935.0	6046.8	6709.0	7218.9
37.5°	9386.9	9427.5	9275.1	8936.3	8311.3	7100.3	6216.1	6134.8	6207.7	6776.8	7190.1
40°	10926.5	10907.9	10462.4	9957.7	9436.0	8108.1	6876.7	6473.6	6515.9	6995.3	7278.1
42.5°	12718.5	12672.8	11905.5	11112.8	10672.5	9327.6	7750.7	7061.3	7052.9	7425.5	7588.1
45°	14148.1	14110.8	13419.8	12442.5	12090.2	10716.5	8880.5	7937.0	7874.4	8108.1	8160.6
47.5°	14922.1	14923.8	14525.8	13728.0	13719.6	12481.4	10332.0	9204.0	9095.6	9205.7	9149.8
50°	14651.1	14686.7	14644.4	14390.3	15206.7	14795.1	12227.3	10970.6	10752.1	10860.5	10645.4
52.5°	13340.2	13385.9	13636.6	14026.1	15831.7	17591.5	15011.9	13165.7	12911.6	12872.7	12633.9
55°	11016.3	11072.2	11583.7	12642.3	15311.7	19469.9	19405.6	15963.8	15559.0	15191.5	15089.8
57.5°	7593.2	7686.3	8509.5	10081.3	13629.8	20037.3	24637.6	19952.6	19129.5	17845.6	17869.3
60°	4280.2	4388.6	5359.1	6786.9	10235.5	19420.8	28618.0	25994.3	24256.5	20953.7	21129.8
62.5°	2721.9	2838.8	3575.6	4715.5	6141.6	16101.0	30249.1	34393.8	32186.8	24785.0	24957.7
65°	2203.6	2254.4	2601.6	3892.3	4459.7	9700.2	29010.9	41312.8	40489.6	29647.8	28841.6
67.5°	2151.1	2168.0	2347.6	3267.3	4276.8	5452.3	23140.3	42606.9	43519.8	34188.8	30459.1
70°	2125.7	2185.0	2645.7	3118.2	4095.5	4598.6	13905.9	39060.1	40501.5	35376.1	28306.3
72.5°	1031.5	1028.1	1331.3	2820.1	4613.8	4769.7	7144.3	31604.1	33050.6	30648.8	23260.6
75°	831.6	760.5	726.6	1033.2	4436.0	4925.5	4552.9	21746.4	22793.1	20548.9	14298.8
77.5°	789.3	704.6	645.3	647.0	1875.0	5223.6	3856.7	12036.0	12340.8	9281.9	3917.7
80°	653.8	575.9	533.5	601.3	907.9	4974.6	4170.1	5447.2	4998.3	2279.8	1304.2
82.5°	453.9	413.3	401.4	504.7	726.6	3545.1	4849.3	2926.8	2454.3	1141.6	804.5
85°	289.6	247.3	274.4	367.5	565.7	1636.2	4994.9	2281.5	1814.0	724.9	453.9
87.5°	133.8	108.4	135.5	203.3	369.2	564.0	4752.7	2562.7	1868.2	382.8	286.2
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°	7408.6	7408.6	7408.6	7408.6	7408.6	7408.6	7408.6	7408.6	7408.6	7408.6	7408.6
2.5°	7412.0	7379.8	7354.4	7306.9	7254.4	7203.6	7157.9	7100.3	7083.4	7068.1	7091.8
5°	7435.7	7403.5	7310.3	7164.7	7003.8	6853.0	6702.3	6573.5	6493.9	6449.9	6475.3
7.5°	7471.2	7425.5	7232.4	6964.8	6675.2	6410.9	6138.2	5919.7	5758.8	5682.6	5704.6
10°	7503.4	7415.3	7100.3	6698.9	6275.4	5882.5	5452.3	5096.6	4832.3	4693.4	4727.3
12.5°	7517.0	7376.4	6915.7	6366.9	5785.9	5210.0	4576.6	4044.7	3665.3	3526.4	3497.6
15°	7530.5	7332.3	6712.4	5989.2	5194.8	4380.1	3492.6	2855.7	2540.7	2471.2	2456.0
17.5°	7533.9	7256.1	6482.1	5579.3	4502.0	3392.6	2388.2	1983.4	1985.1	2096.9	2110.4
20°	7498.3	7142.6	6202.6	5069.5	3672.1	2345.9	1639.6	1570.1	1825.9	2105.4	2139.2
22.5°	7417.0	6991.9	5885.9	4474.9	2721.9	1544.7	1268.6	1344.9	1675.1	2017.3	2056.2
25°	7313.7	6809.0	5511.5	3785.6	1802.2	1104.3	1063.7	1156.8	1380.4	1609.1	1631.1
27.5°	7173.1	6592.2	5091.5	2996.3	1170.4	909.6	936.7	999.3	1090.8	1192.4	1202.6
30°	6991.9	6333.0	4642.6	2185.0	884.1	818.1	857.0	890.9	929.9	987.5	992.6
32.5°	6783.6	6084.0	4181.9	1509.2	784.2	770.7	801.2	818.1	848.6	884.1	887.5
35°	6609.1	5846.9	3704.3	1067.1	741.9	735.1	755.4	762.2	791.0	829.9	833.3
37.5°	6509.2	5653.8	3211.4	860.4	713.1	702.9	714.8	714.8	755.4	813.0	821.5
40°	6515.9	5547.1	2718.5	777.4	689.4	675.8	677.5	677.5	730.0	792.7	797.8
42.5°	6700.6	5574.2	2281.5	745.3	670.7	655.5	647.0	652.1	696.1	736.8	740.2
45°	7134.2	5765.6	1871.6	724.9	652.1	647.0	628.4	626.7	643.6	662.3	662.3
47.5°	7845.6	6143.3	1593.8	711.4	636.9	635.2	613.1	591.1	589.4	596.2	596.2
50°	9002.4	6793.7	1407.5	696.1	626.7	613.1	587.7	553.9	542.0	547.1	547.1
52.5°	10736.8	7954.0	1336.4	675.8	604.7	582.7	553.9	520.0	509.8	511.5	511.5
55°	13011.6	9735.8	1326.2	652.1	581.0	545.4	521.7	496.3	484.4	487.8	487.8
57.5°	15791.0	12200.2	1507.5	614.8	548.8	508.1	494.6	477.6	469.2	474.3	472.6
60°	19170.1	15425.2	2235.8	575.9	516.6	474.3	474.3	460.7	453.9	459.0	457.3
62.5°	23062.4	19129.5	3143.6	547.1	482.7	447.2	453.9	447.2	440.4	443.8	442.1
65°	26514.3	21543.1	2943.8	525.1	448.8	421.7	433.6	430.2	425.1	428.5	426.8
67.5°	26614.3	20648.8	1653.1	501.4	416.7	396.3	413.3	411.6	408.2	411.6	409.9
70°	23751.8	17435.7	931.6	457.3	382.8	365.9	389.6	387.9	384.5	391.3	389.6
72.5°	19029.5	12652.5	680.9	403.1	348.9	333.7	360.8	359.1	359.1	369.2	364.2
75°	10950.2	6510.9	543.7	345.5	313.3	301.5	325.2	326.9	330.3	343.8	333.7
77.5°	3121.6	2029.1	443.8	293.0	269.3	264.2	287.9	291.3	293.0	308.3	294.7
80°	1160.2	935.0	365.9	245.6	220.2	221.9	243.9	249.0	250.7	265.9	249.0
82.5°	740.2	616.5	296.4	189.7	172.8	171.1	198.2	204.9	204.9	206.6	196.5
85°	431.9	369.2	223.6	137.2	122.0	116.9	147.4	159.2	154.1	150.7	144.0
87.5°	289.6	254.1	137.2	76.2	66.1	62.7	86.4	94.9	91.5	86.4	81.3
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)