

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: P194424

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194424
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-06-LED-E1-SL2-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 800mA 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: 28178 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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



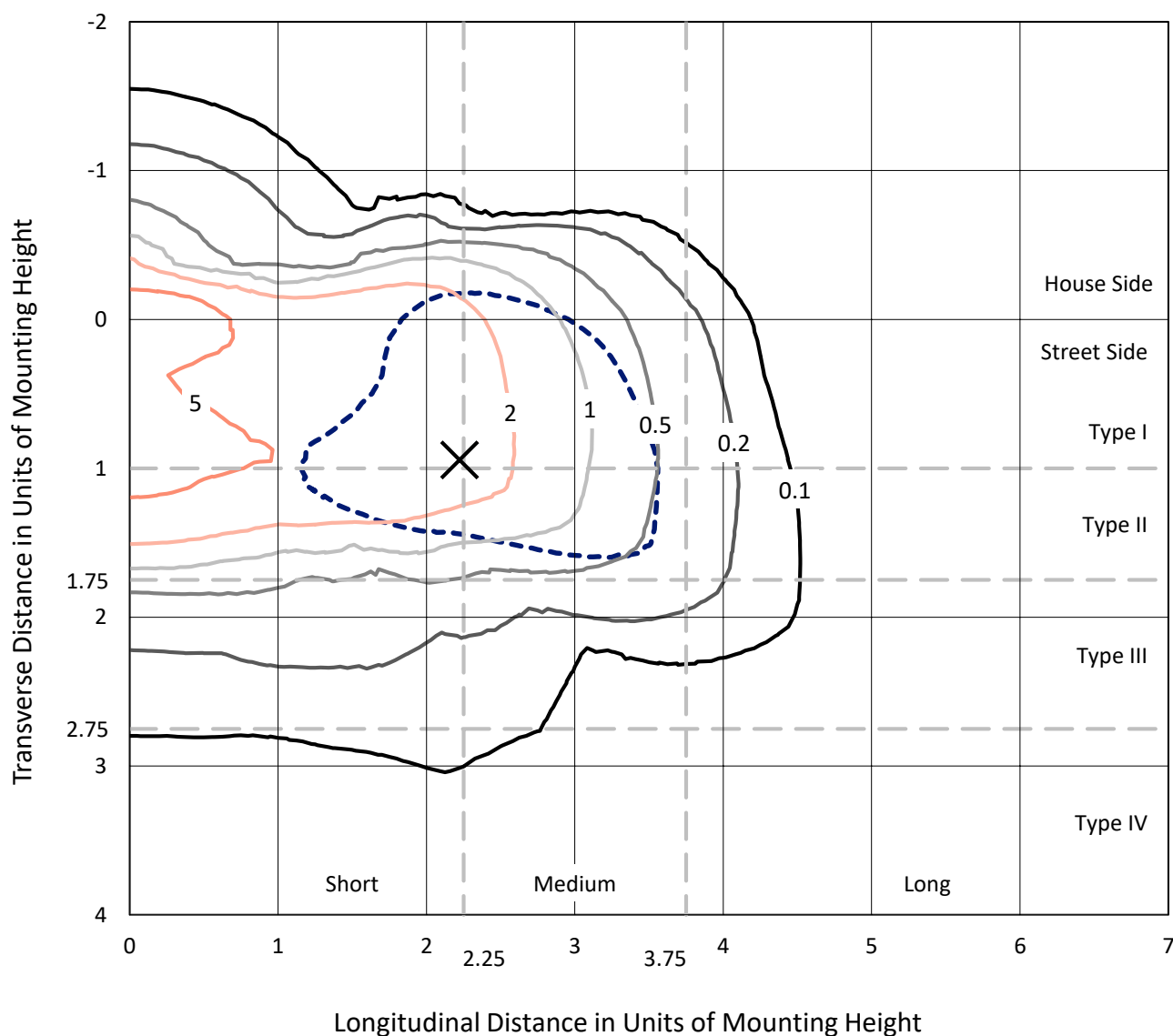
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

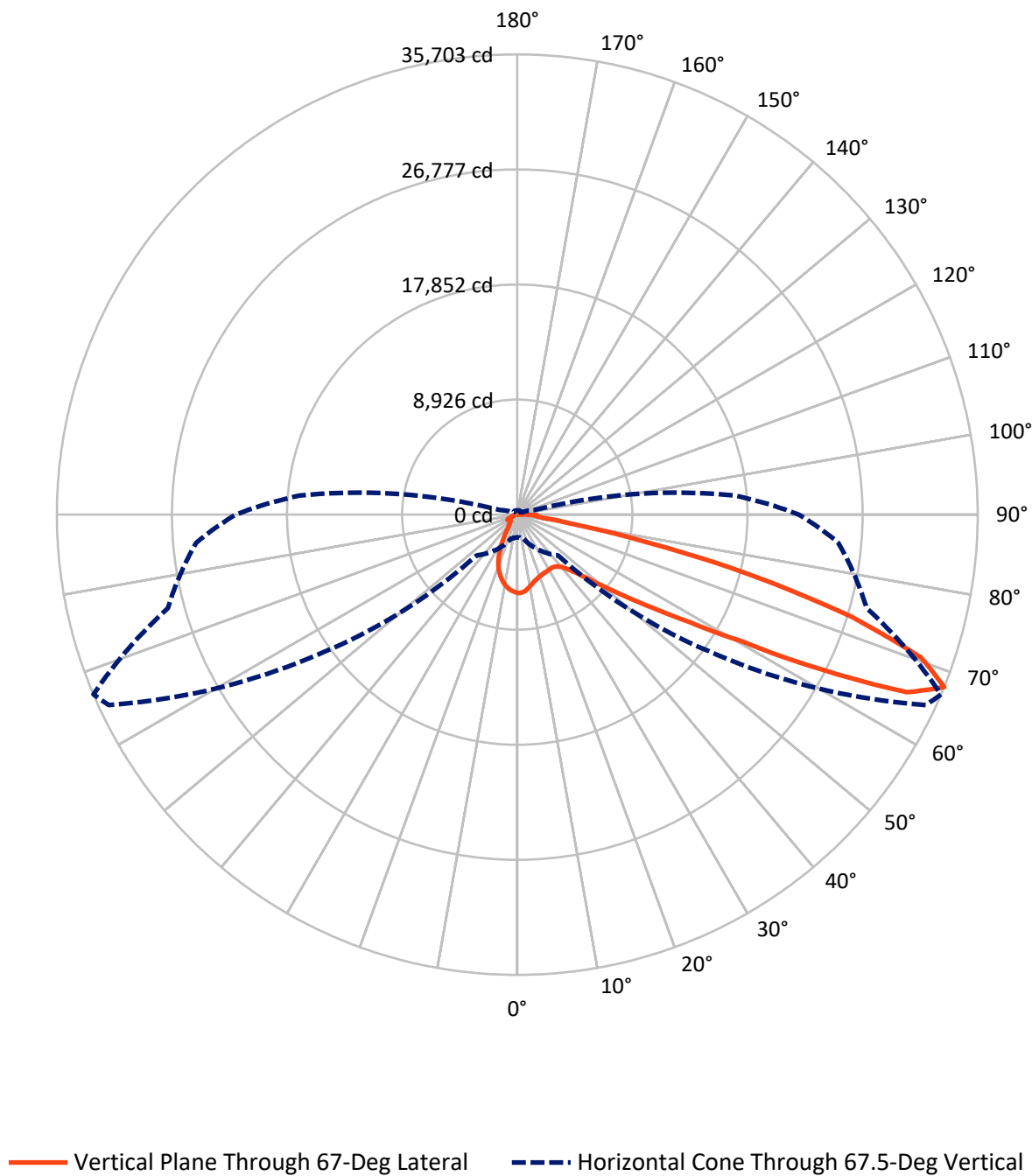


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4668.8	0.0	4668.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	23509.2	0.0	23509.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	28178.0	0.0	28178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.5	1.8
10°-20°	1199.8	4.3
20°-30°	1626.4	5.8
30°-40°	2312.1	8.2
40°-50°	3868.2	13.7
50°-60°	6119.4	21.7
60°-70°	7795.5	27.7
70°-80°	4083.3	14.5
80°-90°	654.9	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°	28178.0	100.0
0°-180°	28178.0	100.0

Coefficient of Utilization



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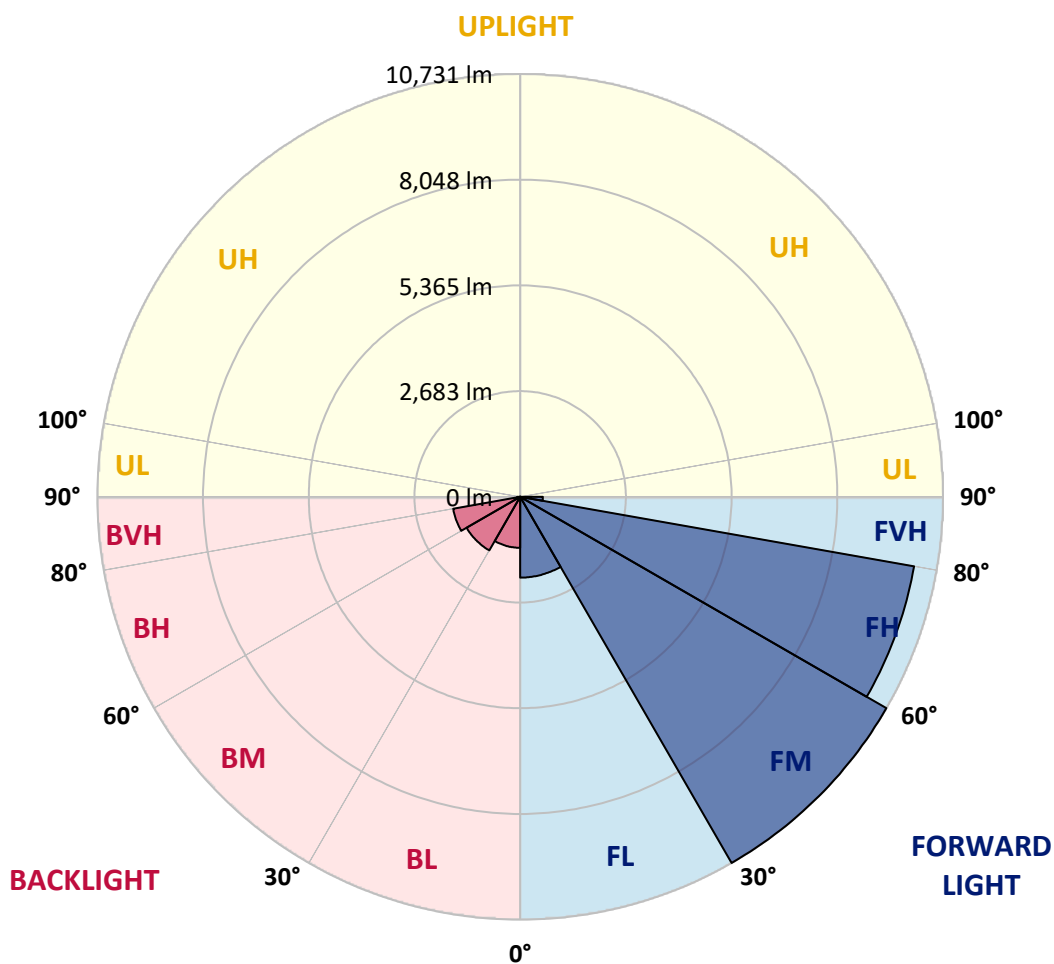
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2050.7	7.3			
FM	(30°-60°)	10730.8	38.1			
FH	(60°-80°)	10151.9	36.0			G4/12000
FVH	(80°-90°)	575.8	2.0			G4/750
BL	(0°-30°)	1294.1	4.6	B3/2500		
BM	(30°-60°)	1568.9	5.6	B2/2500		
BH	(60°-80°)	1726.8	6.1	B3/2500		G3/2500
BVH	(80°-90°)	79.0	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6077.9	6077.9	6077.9	6077.9	6077.9	6077.9	6077.9	6077.9	6077.9	6077.9	6077.9
2.5°	5827.8	5837.5	5868.1	5887.6	5975.1	6012.6	6039.0	6065.4	6069.6	6082.1	6069.6
5°	5216.4	5237.2	5294.2	5358.1	5527.7	5661.1	5801.4	5947.3	5973.7	6068.2	6094.6
7.5°	4742.6	4737.0	4784.2	4860.7	5034.4	5219.2	5465.1	5755.5	5812.5	6025.1	6127.9
10°	4396.6	4392.4	4442.4	4521.6	4687.0	4862.1	5140.0	5537.4	5618.0	5957.0	6159.9
12.5°	4140.9	4142.3	4192.3	4279.8	4448.0	4624.4	4906.5	5326.2	5429.0	5877.8	6193.3
15°	3971.4	3982.5	4022.8	4115.9	4279.8	4456.3	4732.8	5167.8	5283.1	5815.3	6230.8
17.5°	3914.4	3932.4	3946.3	4014.4	4154.8	4331.3	4602.2	5051.0	5173.3	5772.2	6264.1
20°	3967.2	3988.0	3961.6	3985.3	4074.2	4229.8	4499.4	4959.3	5084.4	5723.6	6268.3
22.5°	4193.7	4213.1	4135.3	4067.2	4061.7	4156.2	4414.6	4887.1	5016.3	5687.5	6269.7
25°	4592.5	4605.0	4474.4	4316.0	4161.7	4129.8	4354.9	4837.1	4974.6	5655.5	6243.3
27.5°	5081.6	5091.3	4941.3	4707.8	4398.0	4192.3	4334.0	4807.9	4951.0	5627.7	6198.8
30°	5676.3	5722.2	5520.7	5226.1	4774.5	4377.1	4375.7	4792.6	4924.6	5580.5	6111.3
32.5°	6285.0	6304.4	6165.5	5866.7	5281.7	4702.3	4492.4	4803.7	4917.6	5523.5	6000.1
35°	6901.9	6926.9	6836.6	6596.2	5975.1	5178.9	4720.3	4869.0	4960.7	5504.0	5922.3
37.5°	7700.9	7734.3	7609.2	7331.3	6818.6	5825.0	5099.7	5033.0	5092.7	5559.6	5898.7
40°	8964.0	8948.8	8583.3	8169.2	7741.2	6651.8	5641.6	5310.9	5345.6	5738.9	5970.9
42.5°	10434.2	10396.7	9767.2	9116.9	8755.6	7652.3	6358.6	5793.1	5786.1	6091.8	6225.2
45°	11607.0	11576.4	11009.5	10207.7	9918.7	8791.7	7285.5	6511.5	6460.1	6651.8	6694.9
47.5°	12242.0	12243.4	11916.8	11262.4	11255.4	10239.7	8476.3	7550.9	7461.9	7552.2	7506.4
50°	12019.7	12048.9	12014.1	11805.7	12475.4	12137.8	10031.2	9000.2	8820.9	8909.8	8733.4
52.5°	10944.2	10981.7	11187.3	11506.9	12988.2	14431.9	12315.7	10801.0	10592.6	10560.6	10364.7
55°	9037.7	9083.5	9503.2	10371.7	12561.6	15973.0	15920.2	13096.6	12764.5	12462.9	12379.6
57.5°	6229.4	6305.8	6981.1	8270.6	11181.8	16438.5	20212.5	16369.0	15693.7	14640.4	14659.8
60°	3511.4	3600.3	4396.6	5568.0	8397.1	15932.7	23478.0	21325.5	19899.9	17190.2	17334.7
62.5°	2233.0	2328.9	2933.4	3868.5	5038.5	13209.1	24816.1	28216.4	26405.8	20333.4	20475.1
65°	1807.8	1849.5	2134.4	3193.2	3658.7	7958.0	23800.3	33892.7	33217.4	24322.8	23661.4
67.5°	1764.7	1778.6	1925.9	2680.5	3508.6	4473.0	18984.1	34954.3	35703.3	28048.2	24988.4
70°	1743.9	1792.5	2170.5	2558.2	3360.0	3772.6	11408.3	32044.6	33227.1	29022.3	23222.3
72.5°	846.2	843.5	1092.2	2313.6	3785.2	3913.0	5861.2	25927.8	27114.4	25144.0	19082.8
75°	682.3	623.9	596.1	847.6	3639.3	4040.8	3735.1	17840.5	18699.3	16858.1	11730.6
77.5°	647.5	578.1	529.4	530.8	1538.2	4285.4	3164.0	9874.2	10124.3	7614.8	3214.0
80°	536.4	472.4	437.7	493.3	744.8	4081.1	3421.1	4468.8	4100.6	1870.3	1070.0
82.5°	372.4	339.1	329.3	414.1	596.1	2908.3	3978.3	2401.2	2013.5	936.6	660.0
85°	237.6	202.9	225.1	301.5	464.1	1342.3	4097.8	1871.7	1488.2	594.7	372.4
87.5°	109.8	88.9	111.2	166.7	302.9	462.7	3899.1	2102.4	1532.7	314.0	234.8
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°	6077.9	6077.9	6077.9	6077.9	6077.9	6077.9	6077.9	6077.9	6077.9	6077.9	6077.9
2.5°	6080.7	6054.3	6033.5	5994.6	5951.5	5909.8	5872.3	5825.0	5811.1	5798.6	5818.1
5°	6100.2	6073.8	5997.3	5877.8	5745.8	5622.2	5498.5	5392.9	5327.6	5291.4	5312.3
7.5°	6129.3	6091.8	5933.4	5713.9	5476.2	5259.5	5035.8	4856.5	4724.5	4662.0	4680.0
10°	6155.7	6083.5	5825.0	5495.7	5148.3	4825.9	4473.0	4181.2	3964.4	3850.5	3878.3
12.5°	6166.9	6051.5	5673.6	5223.3	4746.7	4274.3	3754.6	3318.3	3007.0	2893.1	2869.4
15°	6178.0	6015.4	5506.8	4913.5	4261.8	3593.4	2865.3	2342.8	2084.3	2027.4	2014.9
17.5°	6180.8	5952.9	5317.8	4577.2	3693.4	2783.3	1959.3	1627.2	1628.6	1720.3	1731.4
20°	6151.6	5859.8	5088.6	4158.9	3012.6	1924.5	1345.1	1288.1	1497.9	1727.2	1755.0
22.5°	6084.9	5736.1	4828.7	3671.2	2233.0	1267.3	1040.8	1103.3	1374.3	1655.0	1686.9
25°	6000.1	5586.0	4521.6	3105.7	1478.5	906.0	872.6	949.1	1132.5	1320.1	1338.1
27.5°	5884.8	5408.2	4177.0	2458.1	960.2	746.2	768.4	819.8	894.9	978.2	986.6
30°	5736.1	5195.6	3808.8	1792.5	725.3	671.2	703.1	730.9	762.9	810.1	814.3
32.5°	5565.2	4991.3	3430.8	1238.1	643.4	632.2	657.3	671.2	696.2	725.3	728.1
35°	5422.1	4796.8	3039.0	875.4	608.6	603.1	619.7	625.3	648.9	680.9	683.7
37.5°	5340.1	4638.3	2634.6	705.9	585.0	576.7	586.4	586.4	619.7	667.0	673.9
40°	5345.6	4550.8	2230.2	637.8	565.6	554.4	555.8	555.8	598.9	650.3	654.5
42.5°	5497.1	4573.0	1871.7	611.4	550.3	537.8	530.8	535.0	571.1	604.5	607.2
45°	5852.8	4730.1	1535.5	594.7	535.0	530.8	515.5	514.1	528.0	543.3	543.3
47.5°	6436.4	5039.9	1307.6	583.6	522.5	521.1	503.0	485.0	483.6	489.1	489.1
50°	7385.5	5573.5	1154.7	571.1	514.1	503.0	482.2	454.4	444.7	448.8	448.8
52.5°	8808.4	6525.4	1096.4	554.4	496.1	478.0	454.4	426.6	418.3	419.6	419.6
55°	10674.6	7987.2	1088.0	535.0	476.6	447.4	428.0	407.1	397.4	400.2	400.2
57.5°	12954.8	10009.0	1236.7	504.4	450.2	416.9	405.8	391.9	384.9	389.1	387.7
60°	15727.0	12654.7	1834.2	472.4	423.8	389.1	389.1	378.0	372.4	376.6	375.2
62.5°	18920.2	15693.7	2579.0	448.8	396.0	366.8	372.4	366.8	361.3	364.1	362.7
65°	21752.1	17673.8	2415.1	430.8	368.2	346.0	355.7	352.9	348.8	351.6	350.2
67.5°	21834.1	16940.1	1356.2	411.3	341.8	325.2	339.1	337.7	334.9	337.7	336.3
70°	19485.8	14304.1	764.3	375.2	314.0	300.1	319.6	318.2	315.4	321.0	319.6
72.5°	15611.7	10380.0	558.6	330.7	286.2	273.7	296.0	294.6	294.6	302.9	298.8
75°	8983.5	5341.5	446.0	283.5	257.1	247.3	266.8	268.2	271.0	282.1	273.7
77.5°	2561.0	1664.7	364.1	240.4	220.9	216.8	236.2	239.0	240.4	252.9	241.8
80°	951.8	767.0	300.1	201.5	180.6	182.0	200.1	204.3	205.7	218.2	204.3
82.5°	607.2	505.8	243.2	155.6	141.7	140.3	162.6	168.1	168.1	169.5	161.2
85°	354.3	302.9	183.4	112.6	100.0	95.9	120.9	130.6	126.4	123.7	118.1
87.5°	237.6	208.4	112.6	62.5	54.2	51.4	70.9	77.8	75.0	70.9	66.7
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)