

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: P192842

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192842
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-04-LED-E1-SL2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA 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: 24957 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

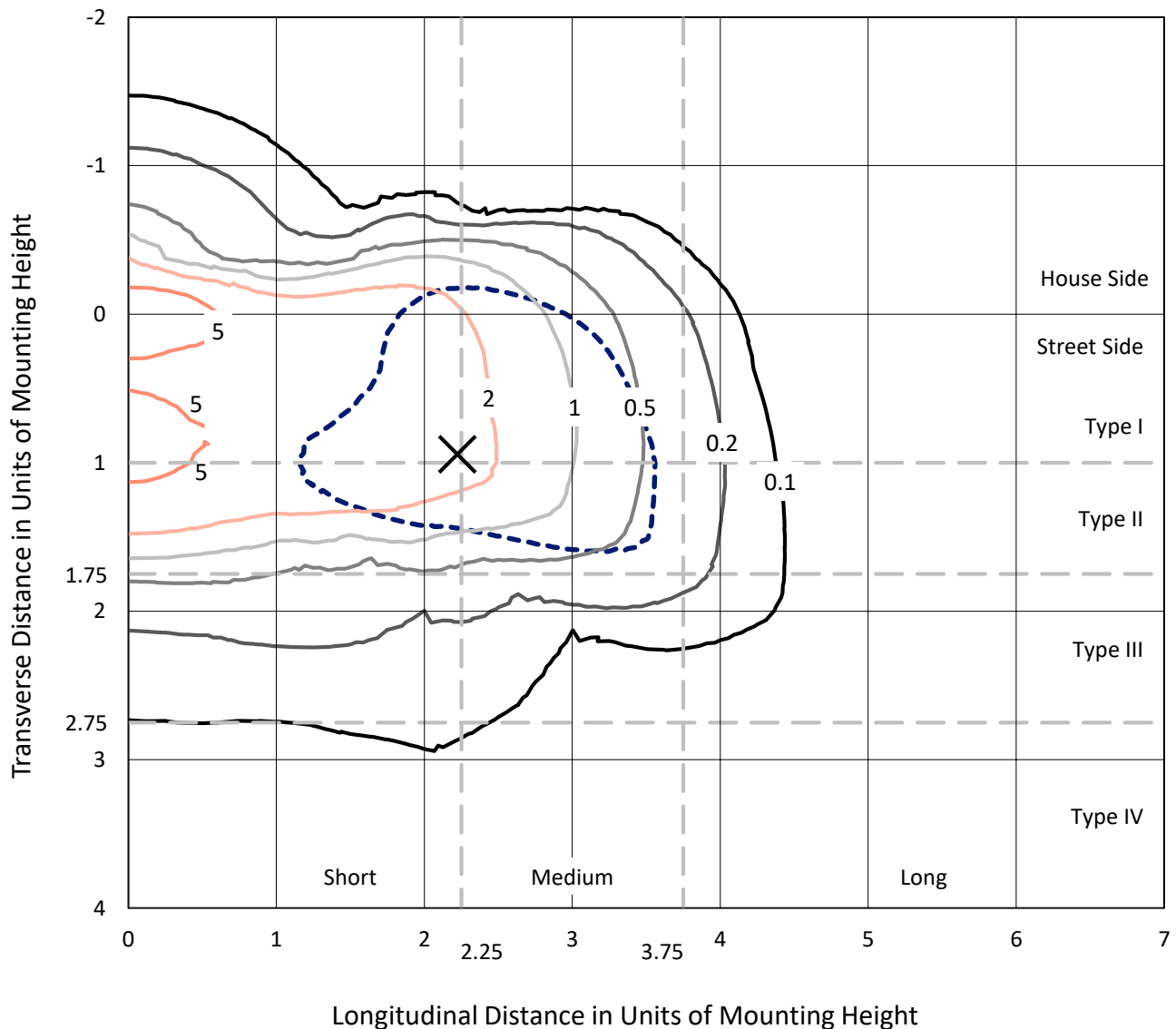


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

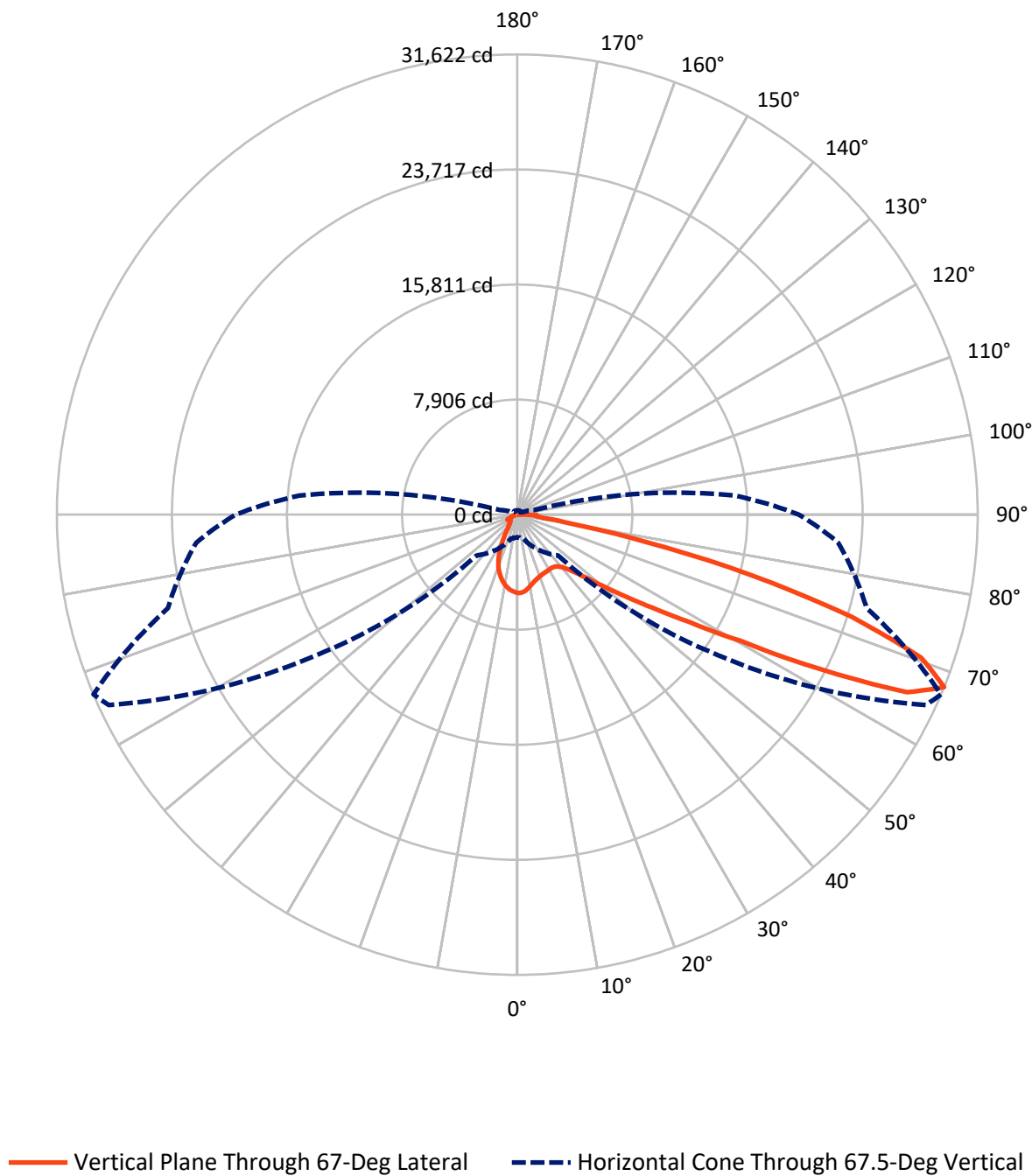


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4135.1	0.0	4135.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	20821.9	0.0	20821.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	24957.0	0.0	24957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.3	1.8
10°-20°	1062.7	4.3
20°-30°	1440.5	5.8
30°-40°	2047.8	8.2
40°-50°	3426.0	13.7
50°-60°	5419.9	21.7
60°-70°	6904.4	27.7
70°-80°	3616.5	14.5
80°-90°	580.0	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°	24957.0	100.0
0°-180°	24957.0	100.0

Coefficient of Utilization



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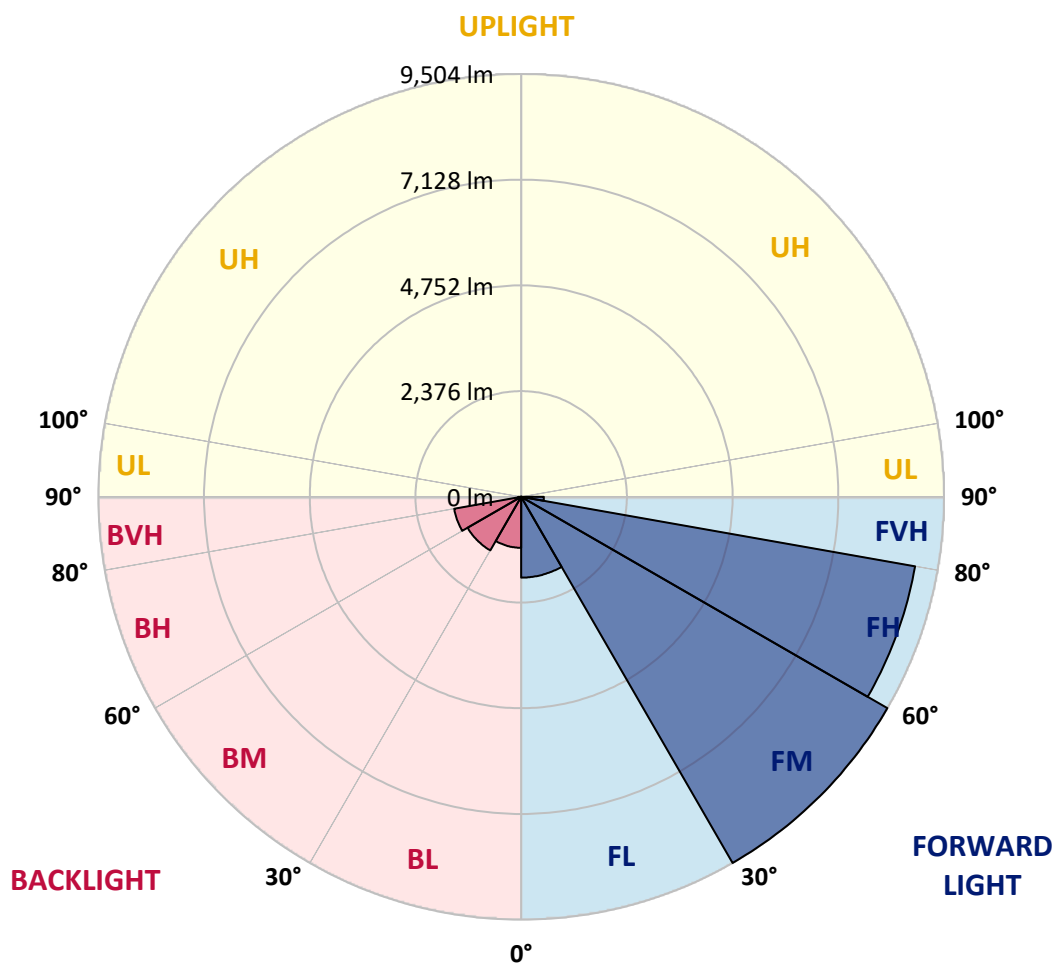
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1816.3	7.3			
FM	(30°-60°)	9504.1	38.1			
FH	(60°-80°)	8991.5	36.0			G4/12000
FVH	(80°-90°)	510.0	2.0			G4/750
BL	(0°-30°)	1146.1	4.6	B3/2500		
BM	(30°-60°)	1389.5	5.6	B2/2500		
BH	(60°-80°)	1529.4	6.1	B3/2500		G3/2500
BVH	(80°-90°)	70.0	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°	5383.2	5383.2	5383.2	5383.2	5383.2	5383.2	5383.2	5383.2	5383.2	5383.2	5383.2
2.5°	5161.6	5170.2	5197.4	5214.5	5292.1	5325.3	5348.7	5372.1	5375.8	5386.8	5375.8
5°	4620.1	4638.6	4689.1	4745.6	4895.8	5013.9	5138.3	5267.5	5290.9	5374.6	5398.0
7.5°	4200.5	4195.5	4237.4	4305.1	4458.9	4622.5	4840.4	5097.6	5148.1	5336.4	5427.5
10°	3894.0	3890.2	3934.7	4004.8	4151.2	4306.2	4552.4	4904.4	4975.7	5276.1	5455.8
12.5°	3667.5	3668.8	3713.0	3790.6	3939.6	4095.8	4345.7	4717.4	4808.4	5205.9	5485.4
15°	3517.4	3527.2	3563.0	3645.4	3790.6	3946.9	4191.8	4577.1	4679.2	5150.6	5518.5
17.5°	3466.9	3482.9	3495.2	3555.6	3679.9	3836.2	4076.1	4473.6	4582.0	5112.5	5548.0
20°	3513.7	3532.2	3508.8	3529.7	3608.5	3746.3	3985.0	4392.4	4503.2	5069.3	5551.8
22.5°	3714.3	3731.5	3662.6	3602.3	3597.4	3681.1	3910.0	4328.5	4442.9	5037.3	5553.0
25°	4067.5	4078.6	3963.0	3822.7	3686.0	3657.7	3857.1	4284.2	4406.0	5009.0	5529.6
27.5°	4500.7	4509.3	4376.5	4169.7	3895.2	3713.0	3838.6	4258.3	4385.0	4984.4	5490.3
30°	5027.4	5068.1	4889.7	4628.8	4228.8	3876.7	3875.5	4244.7	4361.6	4942.6	5412.7
32.5°	5566.5	5583.8	5460.7	5196.1	4677.9	4164.8	3978.9	4254.5	4355.5	4892.1	5314.3
35°	6112.9	6135.1	6055.1	5842.2	5292.1	4586.9	4180.8	4312.5	4393.7	4874.9	5245.3
37.5°	6820.6	6850.2	6739.4	6493.3	6039.1	5159.2	4516.8	4457.7	4510.6	4924.1	5224.4
40°	7939.4	7925.7	7602.2	7235.3	6856.3	5891.5	4996.8	4703.8	4734.5	5082.8	5288.3
42.5°	9241.4	9208.3	8650.7	8074.7	7754.7	6777.6	5631.8	5130.9	5124.7	5395.4	5513.7
45°	10280.2	10253.1	9751.0	9040.8	8784.9	7786.8	6452.7	5767.1	5721.6	5891.5	5929.6
47.5°	10842.7	10843.9	10554.7	9975.0	9968.9	9069.2	7507.4	6687.8	6609.0	6689.0	6648.3
50°	10645.6	10671.6	10640.8	10456.2	11049.4	10750.3	8884.5	7971.3	7812.6	7891.4	7735.1
52.5°	9693.2	9726.4	9908.5	10191.6	11503.6	12782.2	10907.9	9566.4	9381.8	9353.4	9180.0
55°	8004.6	8045.2	8416.9	9186.1	11125.7	14147.1	14100.4	11599.5	11305.4	11038.4	10964.5
57.5°	5517.3	5585.0	6183.1	7325.3	9903.6	14559.5	17902.0	14497.8	13899.8	12966.9	12984.1
60°	3110.1	3188.8	3894.0	4931.5	7437.3	14111.4	20794.2	18887.8	17625.1	15225.2	15353.2
62.5°	1977.8	2062.7	2598.0	3426.4	4462.5	11699.3	21979.3	24991.0	23387.4	18009.1	18134.7
65°	1601.2	1638.2	1890.4	2828.1	3240.5	7048.4	21079.7	30018.4	29420.4	21542.5	20956.7
67.5°	1563.1	1575.3	1705.7	2374.1	3107.6	3961.6	16814.1	30958.7	31622.1	24842.1	22132.0
70°	1544.6	1587.6	1922.4	2265.7	2975.9	3341.3	10104.2	28381.6	29429.0	25704.8	20567.7
72.5°	749.5	747.0	967.4	2049.1	3352.5	3465.7	5191.1	22964.0	24014.9	22269.9	16901.5
75°	604.3	552.7	527.9	750.7	3223.2	3578.9	3308.2	15801.2	16561.7	14931.1	10389.7
77.5°	573.5	512.0	468.9	470.2	1362.4	3795.5	2802.4	8745.4	8967.0	6744.3	2846.6
80°	475.1	418.5	387.7	436.9	659.7	3614.7	3030.0	3958.0	3631.9	1656.6	947.6
82.5°	329.9	300.3	291.7	366.8	527.9	2575.9	3523.5	2126.7	1783.3	829.5	584.5
85°	210.5	179.7	199.4	267.0	411.1	1188.8	3629.4	1657.8	1318.1	526.7	329.9
87.5°	97.2	78.7	98.5	147.7	268.3	409.8	3453.3	1862.1	1357.4	278.2	208.0
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°	5383.2	5383.2	5383.2	5383.2	5383.2	5383.2	5383.2	5383.2	5383.2	5383.2	5383.2
2.5°	5385.6	5362.2	5343.8	5309.4	5271.2	5234.3	5201.1	5159.2	5146.8	5135.8	5153.0
5°	5402.9	5379.5	5311.7	5205.9	5089.0	4979.5	4869.9	4776.4	4718.6	4686.5	4705.0
7.5°	5428.6	5395.4	5255.2	5060.7	4850.2	4658.3	4460.1	4301.3	4184.4	4129.0	4145.1
10°	5452.0	5388.1	5159.2	4867.5	4559.8	4274.3	3961.6	3703.3	3511.3	3410.3	3434.9
12.5°	5462.0	5359.8	5025.1	4626.2	4204.2	3785.8	3325.5	2939.0	2663.3	2562.3	2541.5
15°	5471.8	5327.8	4877.4	4351.8	3774.6	3182.6	2537.8	2075.0	1846.1	1795.5	1784.5
17.5°	5474.2	5272.5	4709.9	4053.9	3271.2	2465.1	1735.4	1441.1	1442.4	1523.6	1533.5
20°	5448.4	5190.0	4507.0	3683.5	2668.2	1704.6	1191.4	1140.8	1326.7	1529.7	1554.4
22.5°	5389.3	5080.4	4276.7	3251.5	1977.8	1122.4	921.8	977.3	1217.1	1465.8	1494.1
25°	5314.3	4947.5	4004.8	2750.6	1309.5	802.4	772.9	840.5	1003.0	1169.2	1185.1
27.5°	5212.1	4789.9	3699.5	2177.1	850.5	660.9	680.5	726.1	792.5	866.4	873.8
30°	5080.4	4601.7	3373.4	1587.6	642.5	594.5	622.8	647.4	675.7	717.5	721.2
32.5°	4929.0	4420.7	3038.6	1096.5	569.8	560.0	582.2	594.5	616.6	642.5	644.8
35°	4802.3	4248.4	2691.6	775.3	539.0	534.2	548.9	553.8	574.7	603.0	605.6
37.5°	4729.7	4108.1	2333.4	625.2	518.1	510.8	519.3	519.3	548.9	590.8	596.9
40°	4734.5	4030.6	1975.3	564.9	501.0	491.0	492.3	492.3	530.5	576.1	579.6
42.5°	4868.7	4050.2	1657.8	541.5	487.4	476.3	470.2	473.8	505.9	535.4	537.8
45°	5183.8	4189.3	1360.0	526.7	473.8	470.2	456.6	455.4	467.6	481.2	481.2
47.5°	5700.7	4463.8	1158.1	516.9	462.7	461.5	445.6	429.5	428.3	433.2	433.2
50°	6541.3	4936.5	1022.7	505.9	455.4	445.6	427.1	402.4	393.9	397.4	397.4
52.5°	7801.5	5779.5	971.0	491.0	439.3	423.4	402.4	377.8	370.5	371.7	371.7
55°	9454.4	7074.2	963.6	473.8	422.2	396.3	379.0	360.5	352.1	354.4	354.4
57.5°	11474.0	8864.9	1095.4	446.8	398.8	369.2	359.4	347.1	340.9	344.6	343.4
60°	13929.3	11208.2	1624.5	418.5	375.5	344.6	344.6	334.8	329.9	333.6	332.2
62.5°	16757.4	13899.8	2284.2	397.4	350.7	324.9	329.9	324.9	320.0	322.5	321.2
65°	19265.6	15653.5	2139.0	381.6	326.1	306.5	315.1	312.6	308.8	311.4	310.2
67.5°	19338.3	15003.7	1201.2	364.3	302.7	288.0	300.3	299.1	296.6	299.1	297.8
70°	17258.4	12669.0	676.9	332.2	278.2	265.8	283.1	281.9	279.3	284.3	283.1
72.5°	13827.1	9193.5	494.7	293.0	253.5	242.4	262.1	260.9	260.9	268.3	264.6
75°	7956.6	4730.9	395.1	251.1	227.7	219.1	236.3	237.5	240.1	249.8	242.4
77.5°	2268.2	1474.5	322.5	212.9	195.7	192.0	209.2	211.6	212.9	224.0	214.1
80°	843.1	679.4	265.8	178.4	159.9	161.2	177.2	181.0	182.1	193.2	181.0
82.5°	537.8	448.0	215.3	137.8	125.5	124.3	144.0	148.9	148.9	150.1	142.8
85°	313.8	268.3	162.5	99.7	88.6	84.9	107.1	115.7	112.0	109.6	104.6
87.5°	210.5	184.6	99.7	55.4	48.0	45.6	62.8	69.0	66.4	62.8	59.1
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)