

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: P191154

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23996.4 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

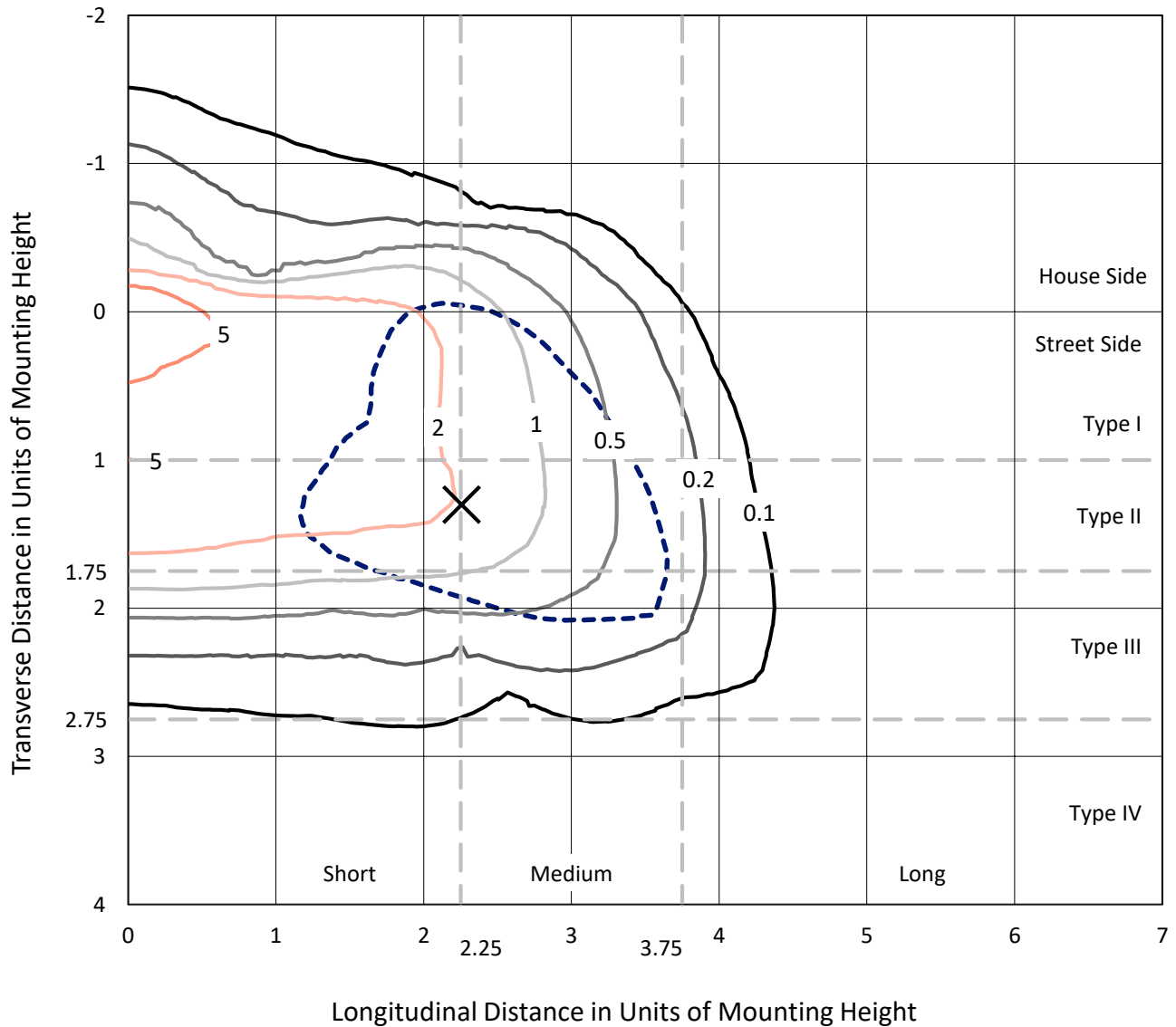
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

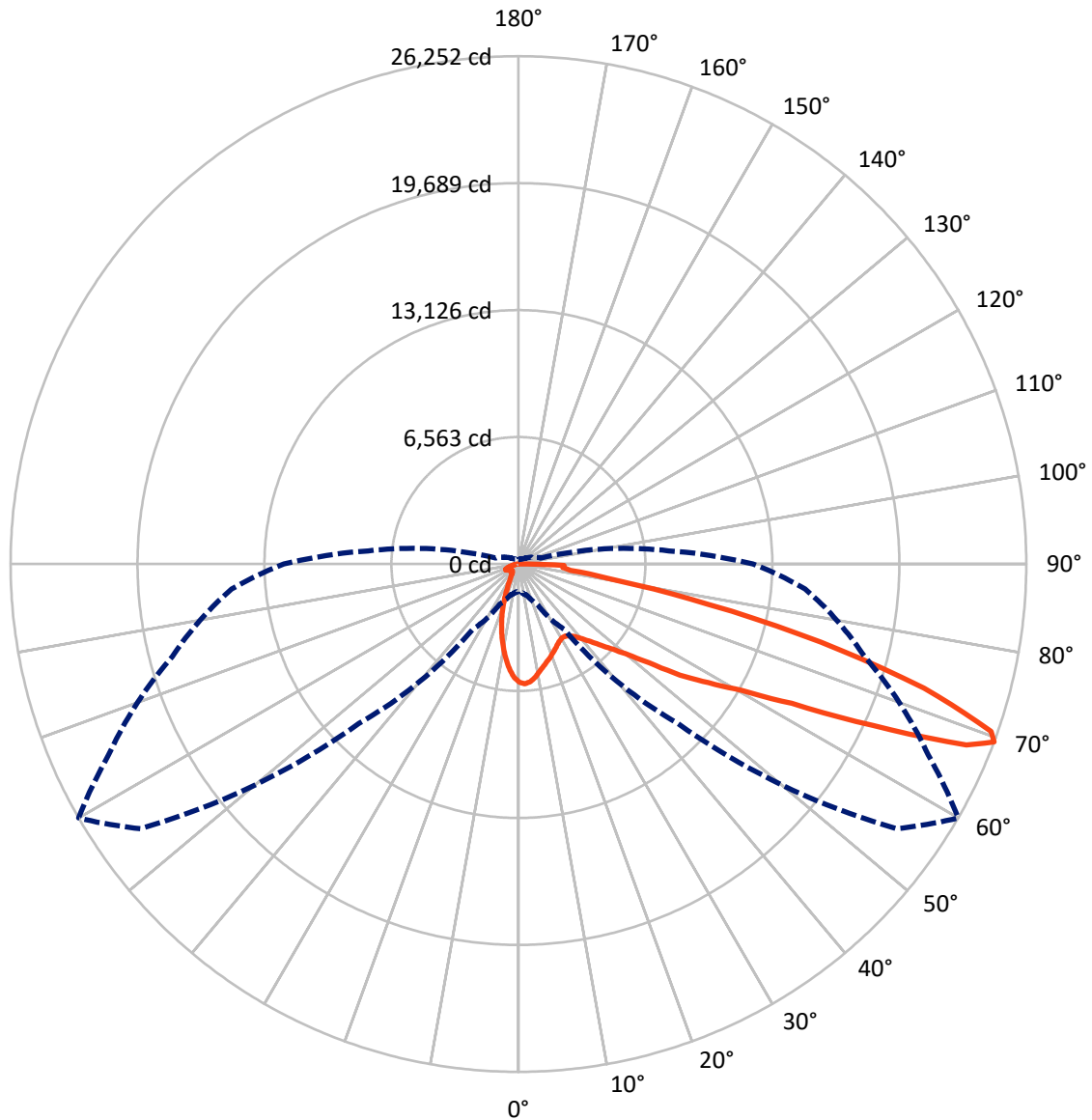
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3413.9	0.0	3413.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	20582.5	0.0	20582.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	23996.4	0.0	23996.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.0	2.2
10°-20°	1101.5	4.6
20°-30°	1403.6	5.8
30°-40°	1929.5	8.0
40°-50°	3130.8	13.0
50°-60°	5021.1	20.9
60°-70°	6682.7	27.8
70°-80°	3608.1	15.0
80°-90°	602.0	2.5
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°	23996.4	100.0
0°-180°	23996.4	100.0



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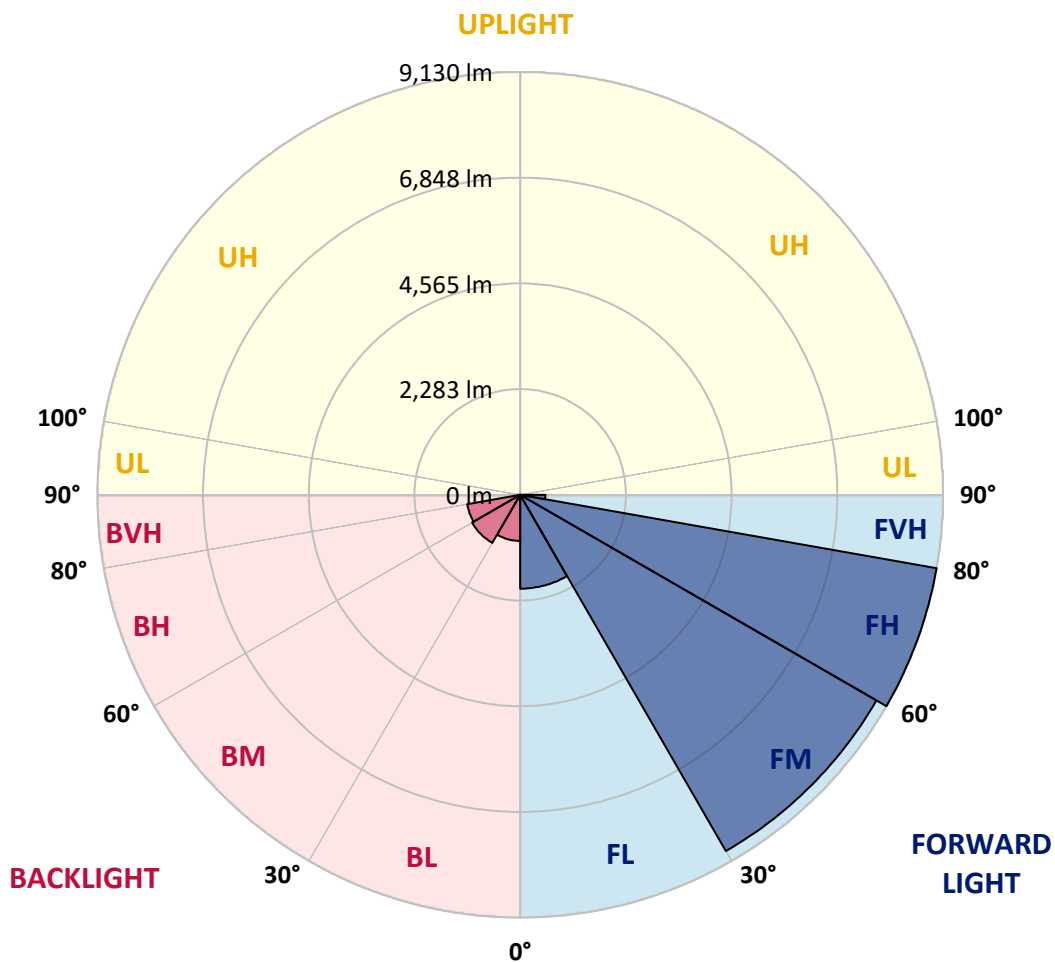
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2026.2	8.4			
FM	(30°-60°)	8882.1	37.0			
FH	(60°-80°)	9130.2	38.0			G4/12000
FVH	(80°-90°)	544.1	2.3			G4/750
BL	(0°-30°)	995.9	4.2	B2/1000		
BM	(30°-60°)	1199.4	5.0	B2/2500		
BH	(60°-80°)	1160.6	4.8	B3/2500		G3/2500
BVH	(80°-90°)	58.0	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6114.7	6114.7	6114.7	6114.7	6114.7	6114.7	6114.7	6114.7	6114.7	6114.7	6114.7
2.5°	6239.8	6253.7	6248.0	6244.5	6254.9	6238.7	6205.0	6194.6	6178.4	6140.2	6075.2
5°	6005.6	6047.4	6045.1	6076.4	6128.6	6142.5	6127.4	6129.7	6099.5	6052.1	5944.3
7.5°	5601.2	5618.6	5627.8	5696.2	5791.2	5867.7	5932.6	5953.5	5939.6	5899.1	5759.9
10°	5183.8	5197.7	5219.7	5299.7	5420.3	5525.8	5648.6	5719.3	5749.5	5742.5	5587.3
12.5°	4825.7	4839.6	4868.5	4959.0	5102.7	5232.5	5411.0	5499.1	5571.0	5613.9	5447.0
15°	4504.6	4534.6	4562.5	4666.8	4827.9	4998.3	5200.1	5311.4	5422.7	5518.8	5322.9
17.5°	4254.1	4284.3	4300.5	4395.6	4567.2	4775.7	5012.3	5143.3	5282.3	5440.1	5200.1
20°	4109.3	4123.2	4116.3	4169.5	4323.7	4545.1	4825.7	4977.5	5145.5	5365.8	5077.2
22.5°	4068.7	4069.8	4044.3	4038.6	4138.2	4324.8	4626.3	4810.5	5016.9	5317.1	4971.7
25°	4167.2	4163.7	4094.2	4037.4	4047.8	4156.8	4433.9	4648.3	4909.1	5306.7	4890.5
27.5°	4386.3	4396.7	4293.5	4186.9	4081.5	4078.0	4287.8	4513.9	4821.0	5354.2	4855.7
30°	4693.5	4710.9	4600.7	4465.2	4266.9	4103.5	4231.0	4433.9	4766.5	5452.7	4850.0
32.5°	5029.6	5048.2	4964.8	4822.2	4562.5	4261.1	4270.4	4440.8	4764.2	5590.7	4889.4
35°	5387.9	5408.8	5365.8	5245.3	4956.6	4552.0	4421.1	4553.3	4839.6	5801.7	4994.9
37.5°	5787.8	5820.2	5831.8	5717.1	5408.8	4935.7	4668.0	4766.5	5009.9	6094.9	5188.5
40°	6363.9	6409.1	6405.6	6241.0	5926.9	5453.9	5049.4	5074.9	5275.4	6486.7	5498.0
42.5°	7467.4	7476.6	7188.1	6829.8	6497.2	5998.7	5499.1	5478.2	5641.7	6982.9	5953.5
45°	8871.1	8832.9	8190.8	7498.7	7092.9	6624.6	6084.5	5982.5	6106.5	7587.9	6523.9
47.5°	10036.2	9948.0	9136.6	8181.5	7723.6	7305.1	6771.9	6593.4	6661.8	8274.1	7261.1
50°	10440.6	10374.6	9702.3	8749.4	8320.6	8135.1	7618.1	7365.3	7384.0	9092.6	8124.7
52.5°	10353.7	10344.5	9895.8	9123.9	8879.3	9006.8	8816.7	8474.7	8293.9	10001.4	9056.6
55°	10148.6	10168.2	10006.0	9559.7	9517.9	9848.4	10382.7	10130.0	9567.9	10918.3	10019.9
57.5°	9435.7	9486.6	9843.8	10108.0	10546.2	11037.6	11643.9	11572.0	10939.1	11909.4	11165.2
60°	7601.9	7720.1	8677.6	10001.4	11604.5	13141.5	13412.8	13245.9	12353.4	13139.2	12677.8
62.5°	5326.4	5449.3	6587.6	8659.1	11430.7	15517.9	16575.1	15855.2	14384.2	14951.0	14635.8
65°	2851.6	2910.7	3780.1	6008.0	9650.1	16008.2	21196.7	20101.2	17599.8	17184.8	16310.7
67.5°	1573.0	1605.4	1938.2	3033.6	6180.7	14096.7	24140.9	24968.6	21618.6	18672.0	16005.9
69°	1422.3	1452.5	1670.4	2297.4	4135.9	11655.5	23853.5	26251.8	23380.6	18524.7	14879.1
70°	1391.0	1418.8	1614.7	2117.8	3347.7	9607.2	22890.2	25923.7	23800.2	17997.3	13896.2
72.5°	1251.9	1282.1	1472.1	1902.2	2860.9	4789.7	18131.8	21918.9	21608.2	15604.8	10540.4
75°	1167.3	1195.1	1517.3	1862.8	2739.2	3031.2	11953.4	16154.2	15884.2	10915.9	5683.4
77.5°	499.6	497.3	703.6	1576.5	2779.7	2935.1	6423.0	10091.7	9207.3	4665.7	1632.1
80°	333.9	328.1	333.9	463.7	2549.0	2951.2	3365.1	5122.4	3869.3	1189.3	804.4
82.5°	287.4	282.8	293.3	282.8	896.0	3368.6	2860.9	2724.0	1839.6	675.8	398.7
85°	193.5	185.5	252.7	253.9	423.1	2992.9	3222.5	2300.9	1488.4	401.1	197.0
87.5°	92.8	90.4	147.2	179.6	248.1	1216.0	3615.4	2357.8	1501.2	205.2	93.9
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°	6114.7	6114.7	6114.7	6114.7	6114.7	6114.7	6114.7	6114.7	6114.7	6114.7	6114.7
2.5°	6055.6	6008.0	5961.7	5906.0	5848.0	5783.2	5750.6	5718.2	5710.1	5700.8	5668.4
5°	5888.6	5821.4	5705.4	5577.9	5443.5	5312.5	5212.9	5150.3	5102.7	5078.3	5035.5
7.5°	5673.0	5574.5	5371.6	5151.4	4925.3	4719.0	4540.5	4428.0	4321.4	4271.5	4214.8
10°	5467.8	5320.6	5005.3	4680.7	4356.1	4044.3	3751.1	3543.6	3359.3	3256.2	3183.1
12.5°	5291.6	5089.9	4652.9	4213.6	3768.4	3324.5	2885.2	2539.8	2251.1	2099.3	2021.6
15°	5120.1	4876.6	4317.9	3760.4	3188.8	2585.0	2007.6	1615.9	1377.1	1282.1	1249.6
17.5°	4964.8	4652.9	3981.7	3303.6	2590.7	1860.4	1349.3	1133.6	1042.1	1010.8	1000.3
20°	4796.6	4426.9	3632.8	2826.1	1967.1	1300.6	1053.6	958.6	921.6	912.3	907.7
22.5°	4634.4	4204.3	3299.0	2314.8	1413.0	1003.8	905.3	865.9	860.1	868.2	868.2
25°	4496.5	4005.0	2938.5	1780.4	1037.5	845.1	810.3	801.0	823.0	853.1	859.0
27.5°	4393.3	3841.5	2554.8	1314.5	826.4	734.9	733.8	748.8	803.3	861.2	872.9
30°	4322.6	3686.2	2144.5	948.2	693.2	646.8	665.3	697.9	777.9	860.1	882.1
32.5°	4286.7	3571.4	1716.7	733.8	593.5	568.0	599.2	638.7	717.5	794.0	823.0
35°	4314.4	3486.8	1313.4	612.0	524.0	504.2	536.7	575.0	621.3	653.8	675.8
37.5°	4418.7	3453.2	991.1	548.3	476.4	457.9	483.3	505.4	524.0	533.3	543.7
40°	4643.7	3489.1	794.0	515.9	449.8	426.6	437.0	445.1	456.7	466.0	470.7
42.5°	4975.2	3596.9	711.8	503.1	435.9	402.2	399.9	403.3	418.5	435.9	439.4
45°	5438.8	3787.1	705.9	511.2	428.9	382.5	372.0	376.8	399.9	426.6	431.2
47.5°	6031.2	4076.8	752.3	535.5	434.7	372.0	354.7	360.5	389.4	425.4	431.2
50°	6748.7	4481.3	829.9	571.5	460.2	374.4	348.9	352.4	382.5	422.0	427.7
52.5°	7596.0	5055.1	914.6	606.2	486.8	389.4	353.5	345.5	373.3	408.1	415.0
55°	8538.5	5791.2	1001.6	637.5	500.7	408.1	362.8	336.1	355.9	384.8	390.7
57.5°	9695.3	6820.6	1152.3	667.7	510.0	420.7	372.0	326.9	333.9	354.7	359.4
60°	11261.4	8276.5	1417.7	717.5	530.9	425.4	370.9	318.8	311.8	323.5	325.7
62.5°	13138.1	9857.7	1639.1	780.1	565.7	428.9	364.0	313.0	293.3	293.3	295.6
65°	14252.1	10280.8	1516.2	832.3	594.6	425.4	355.9	307.2	279.4	266.6	267.8
67.5°	13307.4	9041.6	1299.5	842.7	593.5	409.2	343.1	296.8	265.5	245.7	244.6
69°	12123.8	7801.2	1202.1	814.9	565.7	388.3	326.9	285.2	255.0	234.2	233.0
70°	11169.8	7044.3	1138.3	784.8	535.5	373.3	314.1	274.8	246.9	227.2	224.8
72.5°	8121.2	4615.9	972.5	674.6	441.6	313.0	271.3	241.1	220.2	208.7	206.3
75°	4058.3	2201.3	789.4	547.2	338.5	250.4	222.6	201.7	191.3	188.9	187.8
77.5°	1333.0	1008.5	564.6	408.1	251.5	195.9	179.6	164.6	162.2	169.2	166.9
80°	732.6	586.6	358.1	270.1	171.5	143.7	141.4	133.3	136.8	148.3	146.1
82.5°	373.3	304.8	221.4	162.2	115.9	103.2	112.4	107.8	112.4	122.9	121.7
85°	184.3	166.9	140.2	98.5	76.5	66.1	80.0	83.5	85.8	93.9	93.9
87.5°	106.7	98.5	74.2	46.3	38.3	34.8	46.3	45.2	53.3	58.0	56.8
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)