

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: P194603

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL4-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31011 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 320
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



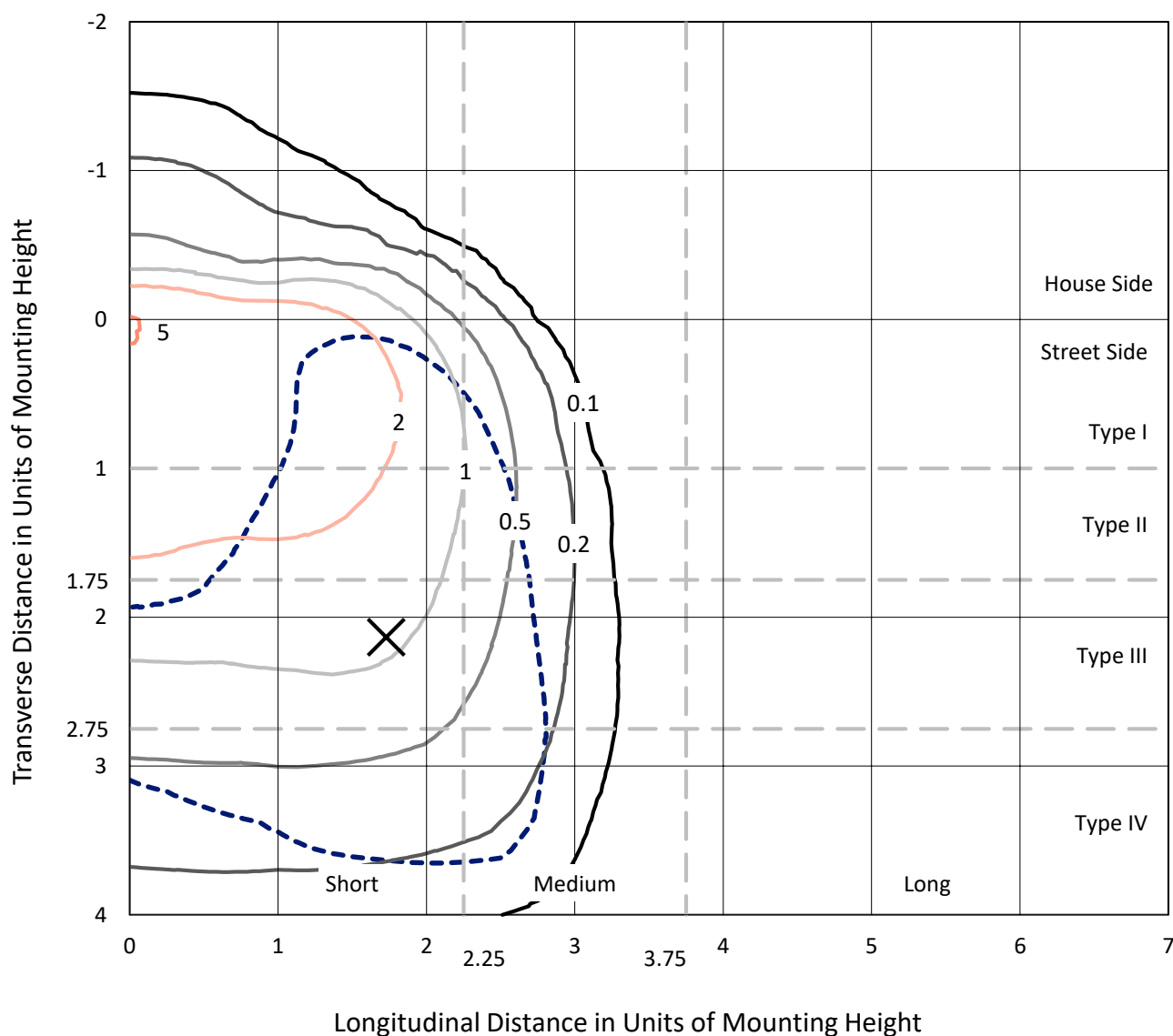
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

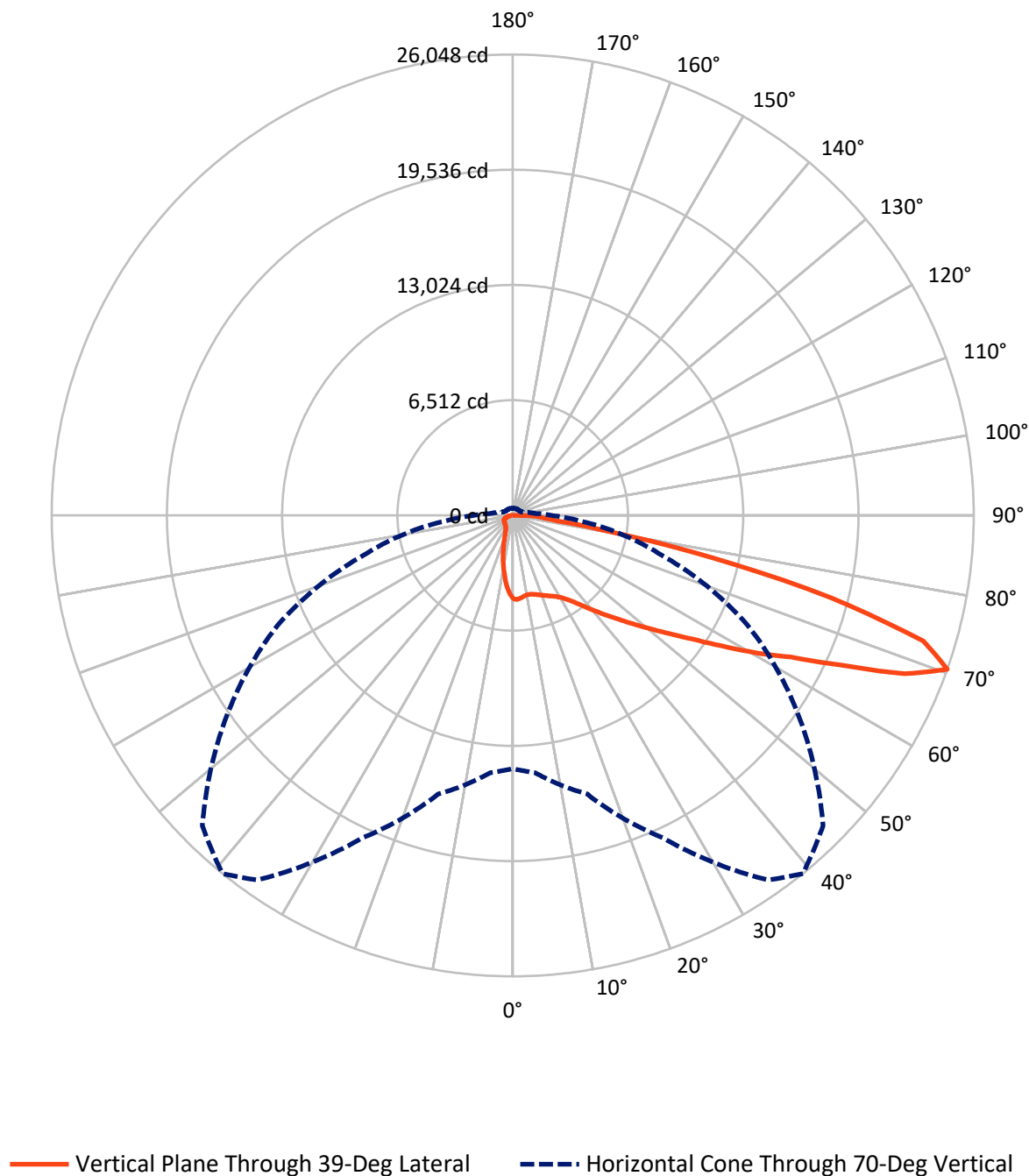


Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3527.0	0.0	3527.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	27484.0	0.0	27484.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	31011.0	0.0	31011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.0	1.3
10°-20°	1009.9	3.3
20°-30°	1572.5	5.1
30°-40°	2449.6	7.9
40°-50°	4112.5	13.3
50°-60°	6533.1	21.1
60°-70°	8714.4	28.1
70°-80°	5262.4	17.0
80°-90°	952.4	3.1
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°	31011.0	100.0
0°-180°	31011.0	100.0

Coefficient of Utilization



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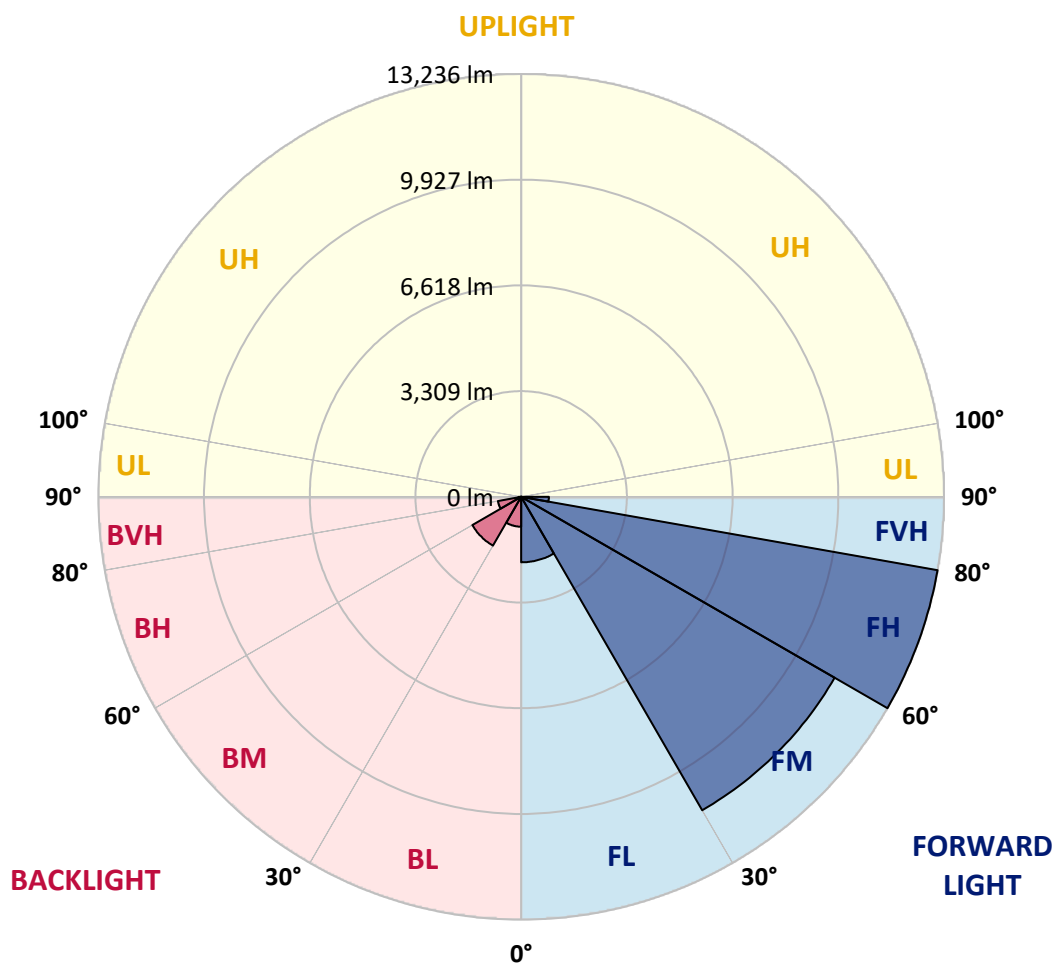
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2050.8	6.6			
FM	(30°-60°)	11330.2	36.5			
FH	(60°-80°)	13236.4	42.7			G5
FVH	(80°-90°)	866.6	2.8			G5
BL	(0°-30°)	935.6	3.0	B2/1000		
BM	(30°-60°)	1765.1	5.7	B2/2500		
BH	(60°-80°)	740.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	85.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4708.0	4708.0	4708.0	4708.0	4708.0	4708.0	4708.0	4708.0	4708.0	4708.0	4708.0
2.5°	4799.4	4797.8	4785.2	4775.7	4767.9	4764.7	4771.0	4747.4	4726.9	4701.6	4674.8
5°	4763.1	4761.6	4741.1	4722.1	4703.2	4696.9	4695.3	4652.8	4627.5	4589.7	4539.2
7.5°	4723.7	4715.8	4689.0	4657.5	4624.4	4608.6	4592.9	4537.7	4509.3	4471.4	4413.1
10°	4682.7	4673.3	4648.0	4616.5	4585.0	4561.3	4534.5	4480.9	4451.0	4422.6	4354.8
12.5°	4640.2	4632.3	4626.0	4611.8	4589.7	4569.2	4548.7	4503.0	4471.4	4438.3	4359.5
15°	4633.8	4630.7	4644.9	4654.3	4641.7	4629.1	4607.0	4567.6	4534.5	4501.4	4398.9
17.5°	4684.3	4682.7	4719.0	4744.2	4737.9	4715.8	4685.9	4641.7	4614.9	4586.5	4458.8
20°	4794.7	4802.6	4846.7	4879.8	4848.3	4816.7	4767.9	4706.4	4692.2	4679.6	4520.3
22.5°	5002.8	5010.7	5042.2	5054.8	4972.8	4927.1	4859.3	4780.5	4771.0	4780.5	4594.4
25°	5327.6	5319.7	5315.0	5267.7	5117.9	5046.9	4960.2	4878.2	4883.0	4925.5	4698.5
27.5°	5758.0	5715.4	5649.2	5507.3	5269.2	5190.4	5084.8	5009.1	5039.1	5121.0	4854.6
30°	6204.2	6156.9	6004.0	5772.2	5467.9	5381.2	5262.9	5177.8	5256.6	5385.9	5062.7
32.5°	6617.3	6611.0	6387.1	6089.1	5742.2	5666.6	5548.3	5452.1	5579.9	5776.9	5374.9
35°	7068.2	7082.4	6814.4	6456.5	6112.8	6033.9	5948.8	5876.3	6046.5	6317.7	5827.4
37.5°	7550.7	7579.1	7262.2	6858.5	6535.3	6502.2	6451.8	6420.2	6683.5	7058.8	6459.6
40°	8195.6	8167.2	7727.3	7312.6	7054.0	7052.5	7036.7	7074.5	7512.9	8026.9	7271.6
42.5°	8886.1	8802.6	8220.8	7799.8	7623.2	7676.8	7708.4	7862.9	8510.9	9203.0	8261.8
45°	9630.3	9442.7	8733.2	8315.4	8255.5	8369.0	8476.2	8812.0	9685.5	10541.6	9346.5
47.5°	10224.7	10043.4	9263.0	8856.2	8987.0	9158.9	9365.4	9896.8	11000.5	11924.4	10417.1
50°	10693.0	10574.8	9797.5	9486.9	9792.7	10057.6	10395.0	11125.0	12369.0	13270.9	11408.8
52.5°	11147.1	11058.8	10336.7	10133.3	10738.7	11104.5	11563.3	12443.1	13772.3	14595.3	12242.9
55°	11557.0	11494.0	10916.9	10939.0	11851.9	12328.0	12905.1	13944.1	15301.6	15776.2	12949.2
57.5°	12019.0	11938.6	11579.1	11949.6	13281.9	13900.0	14650.5	15631.2	16736.4	16826.3	13486.9
60°	12484.1	12414.7	12313.8	13116.4	15098.2	15747.8	16458.9	17266.2	18191.7	17641.4	13455.3
62.5°	12887.7	12895.6	13073.8	14341.4	16876.7	17628.8	18496.0	19293.8	19508.2	17783.3	12460.5
65°	13572.0	13696.6	14227.9	16075.8	19380.5	20386.4	21450.7	21322.9	19872.4	16457.3	10327.2
67.5°	14385.6	14604.7	15681.6	18387.2	22544.9	23880.3	24291.8	21781.8	18414.0	13378.1	7361.5
70°	14303.6	14604.7	16309.1	20110.5	25152.7	26048.2	24799.5	19713.2	14622.1	8739.5	3910.2
72.5°	12701.7	13132.1	15030.4	19320.6	24331.2	24252.4	21529.5	14696.2	8687.5	3509.7	1527.8
75°	9680.8	10115.9	11749.4	15263.8	19230.7	18568.5	15276.4	8118.3	3296.8	1393.8	963.3
77.5°	5568.8	5906.2	7167.6	9360.7	12200.3	11520.8	8503.0	3610.6	1605.1	971.2	752.1
80°	3109.2	3296.8	4063.1	4748.9	5978.8	5480.5	3804.5	2243.6	1198.3	704.8	580.2
82.5°	2458.0	2625.2	3285.8	2995.7	2730.8	2519.5	2185.3	1997.6	957.0	444.6	346.9
85°	2147.4	2306.7	2781.3	2358.7	1865.2	1710.7	1775.3	1966.1	744.2	268.0	296.4
87.5°	1989.8	2202.6	2478.5	1817.9	1452.1	1286.6	1638.2	2155.3	239.7	167.1	119.8
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°	4708.0	4708.0	4708.0	4708.0	4708.0	4708.0	4708.0	4708.0	4708.0	4708.0	4708.0
2.5°	4651.2	4626.0	4585.0	4548.7	4491.9	4462.0	4428.9	4405.2	4386.3	4370.5	4395.8
5°	4507.7	4460.4	4373.7	4280.7	4170.3	4083.6	4011.1	3943.3	3896.0	3864.4	3886.5
7.5°	4372.1	4294.9	4159.3	3990.6	3801.4	3640.5	3508.1	3391.4	3311.0	3259.0	3279.5
10°	4294.9	4198.7	3989.0	3724.1	3445.0	3194.3	2986.2	2806.5	2681.9	2611.0	2622.0
12.5°	4275.9	4151.4	3861.3	3497.1	3115.5	2767.1	2473.8	2224.7	2049.7	1958.2	1961.4
15°	4290.1	4130.9	3741.4	3279.5	2797.0	2357.1	1991.3	1688.6	1485.2	1381.2	1379.6
17.5°	4313.8	4115.1	3615.3	3044.6	2473.8	1963.0	1554.6	1258.2	1078.4	994.9	988.6
20°	4339.0	4089.9	3473.4	2790.7	2138.0	1597.2	1217.2	985.4	871.9	826.2	823.0
22.5°	4375.3	4067.8	3326.8	2522.7	1808.4	1300.8	1001.2	845.1	785.2	761.5	758.4
25°	4433.6	4056.8	3170.7	2243.6	1512.0	1087.9	871.9	775.7	741.0	725.3	723.7
27.5°	4531.4	4072.6	3024.1	1972.4	1270.8	944.4	799.4	741.0	715.8	701.6	700.0
30°	4657.5	4121.4	2869.5	1715.4	1083.2	846.7	755.2	717.4	696.9	682.7	682.7
32.5°	4867.2	4203.4	2707.2	1493.1	949.2	778.9	722.1	696.9	679.5	668.5	666.9
35°	5176.2	4357.9	2555.8	1308.6	853.0	730.0	693.7	674.8	662.2	655.9	655.9
37.5°	5625.6	4602.3	2421.8	1176.2	794.6	696.9	666.9	652.7	644.9	644.9	644.9
40°	6229.4	4939.7	2313.0	1087.9	761.5	673.2	646.4	635.4	630.7	632.2	632.2
42.5°	6975.2	5378.0	2240.5	1026.4	745.8	659.0	632.2	622.8	618.1	616.5	618.1
45°	7825.0	5876.3	2232.6	980.7	730.0	649.6	622.8	613.3	603.9	597.6	597.6
47.5°	8651.2	6382.4	2297.2	964.9	712.7	638.6	614.9	605.4	591.3	577.1	577.1
50°	9381.2	6812.8	2383.9	971.2	706.4	622.8	602.3	597.6	575.5	559.7	558.1
52.5°	9961.4	7143.9	2454.9	990.2	712.7	611.7	586.5	588.1	564.4	547.1	545.5
55°	10426.5	7361.5	2436.0	1009.1	726.8	605.4	572.3	575.5	556.6	539.2	539.2
57.5°	10629.9	7281.1	2226.3	993.3	737.9	607.0	561.3	573.9	558.1	542.4	542.4
60°	10193.2	6566.8	1833.7	923.9	723.7	602.3	556.6	580.2	578.6	562.9	561.3
62.5°	8871.9	5288.2	1422.2	821.4	674.8	578.6	544.0	578.6	596.0	591.3	589.7
65°	6838.0	3766.7	1086.3	711.1	608.6	539.2	510.8	542.4	566.0	572.3	570.8
67.5°	4438.3	2308.3	837.2	607.0	534.5	493.5	468.3	482.5	487.2	487.2	484.0
70°	2182.1	1242.4	666.9	510.8	458.8	444.6	430.4	422.5	414.7	408.4	408.4
72.5°	1076.9	812.0	548.7	432.0	395.7	389.4	386.3	376.8	370.5	362.6	359.5
75°	796.2	660.6	466.7	364.2	340.6	334.3	340.6	332.7	331.1	324.8	321.6
77.5°	654.3	562.9	402.1	312.2	291.7	280.6	290.1	291.7	293.3	283.8	280.6
80°	531.3	476.2	335.8	258.6	239.7	231.8	238.1	250.7	253.8	239.7	233.3
82.5°	383.1	389.4	271.2	201.8	186.0	179.7	192.4	208.1	211.3	190.8	186.0
85°	321.6	324.8	208.1	143.5	127.7	118.3	138.7	154.5	165.6	145.1	140.3
87.5°	134.0	190.8	119.8	80.4	71.0	61.5	74.1	82.0	99.3	91.4	89.9
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)