

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: P193694

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193694
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-SL3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 19142 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

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

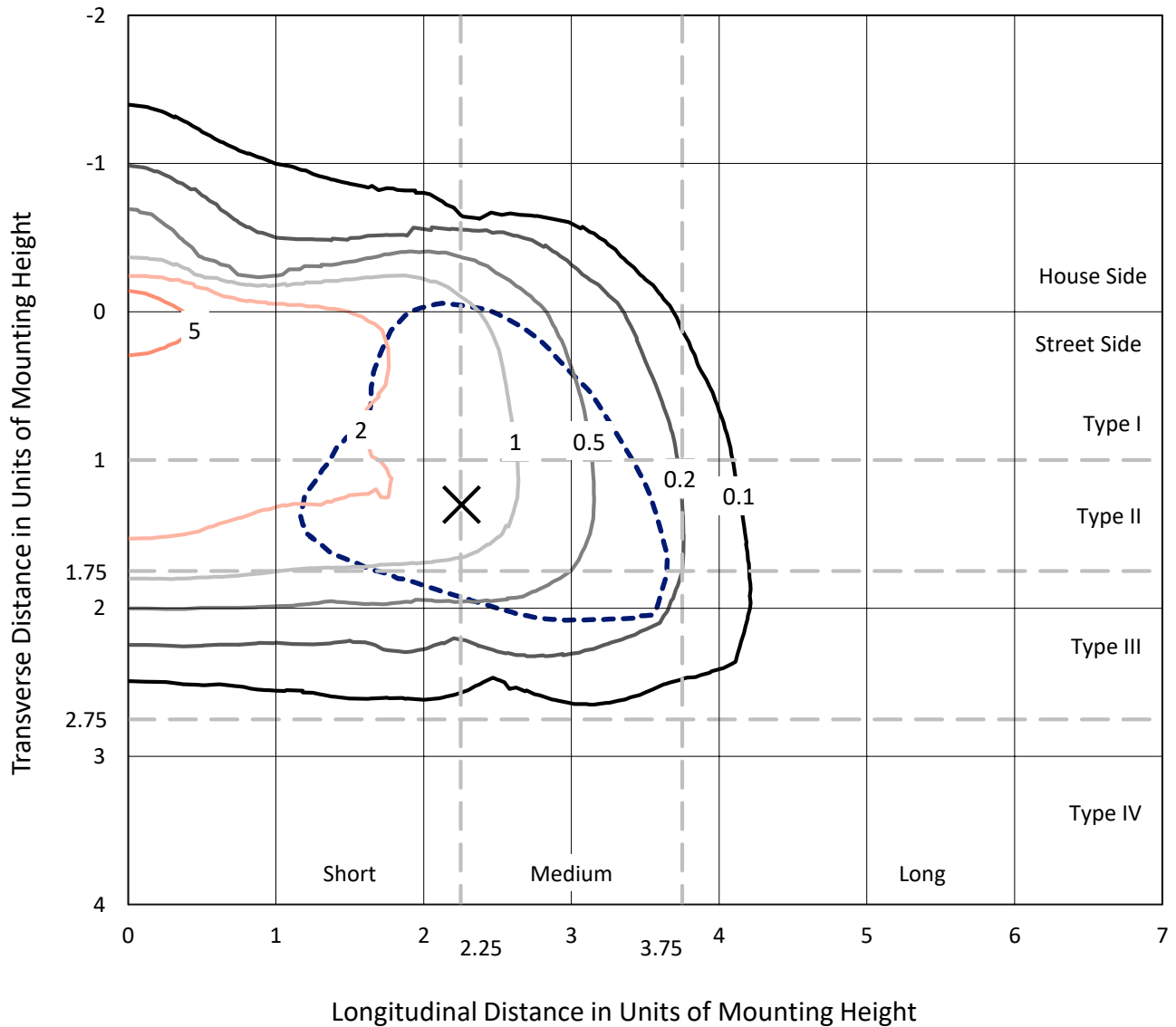


REPORT NUMBER: P193694

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-8030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

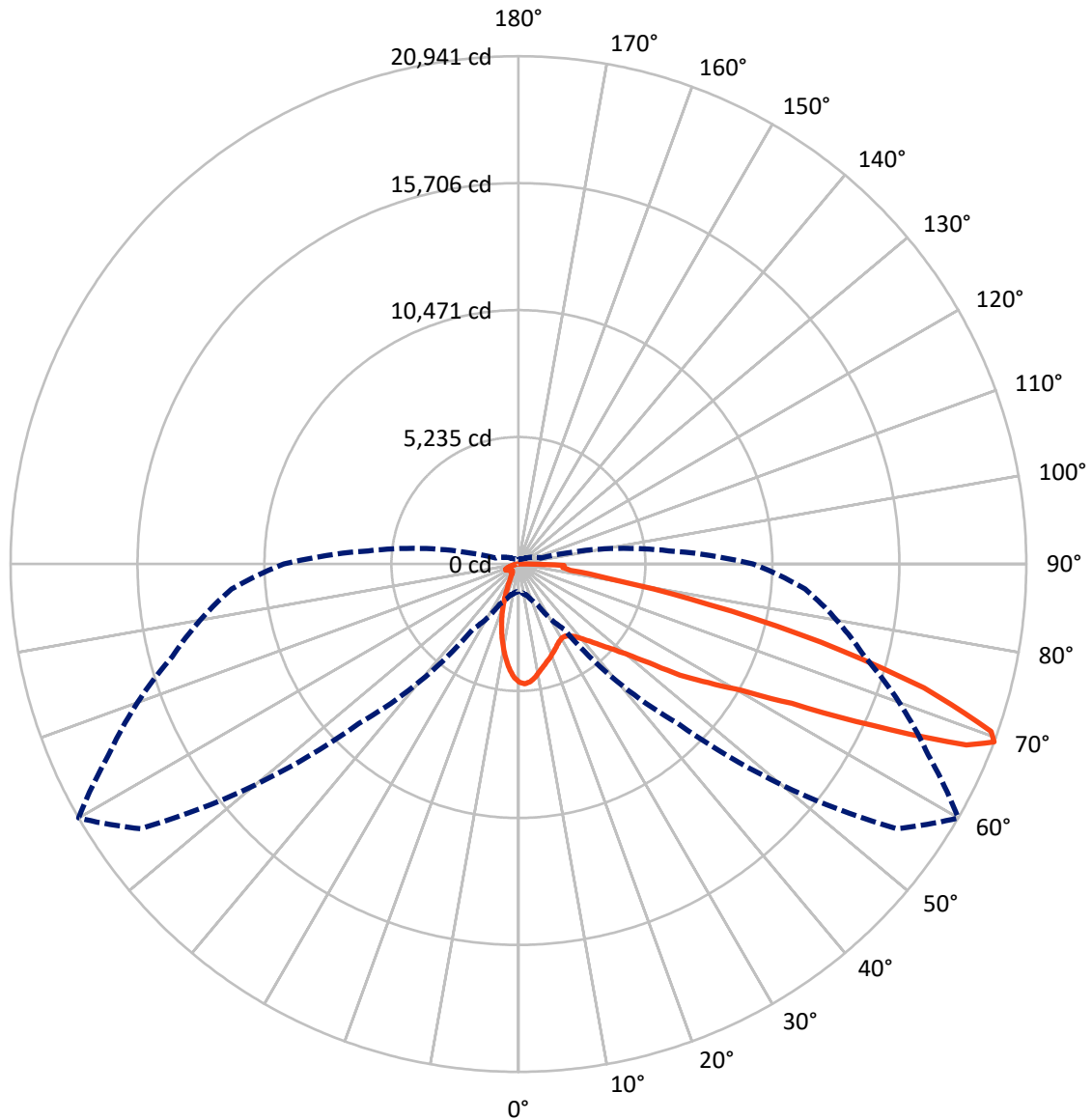


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P193694

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-8030-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193694

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2723.3	0.0	2723.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	16418.7	0.0	16418.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	19142.0	0.0	19142.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.4	2.2
10°-20°	878.7	4.6
20°-30°	1119.6	5.8
30°-40°	1539.2	8.0
40°-50°	2497.5	13.0
50°-60°	4005.3	20.9
60°-70°	5330.8	27.8
70°-80°	2878.2	15.0
80°-90°	480.2	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°	19142.0	100.0
0°-180°	19142.0	100.0



REPORT NUMBER: P193694

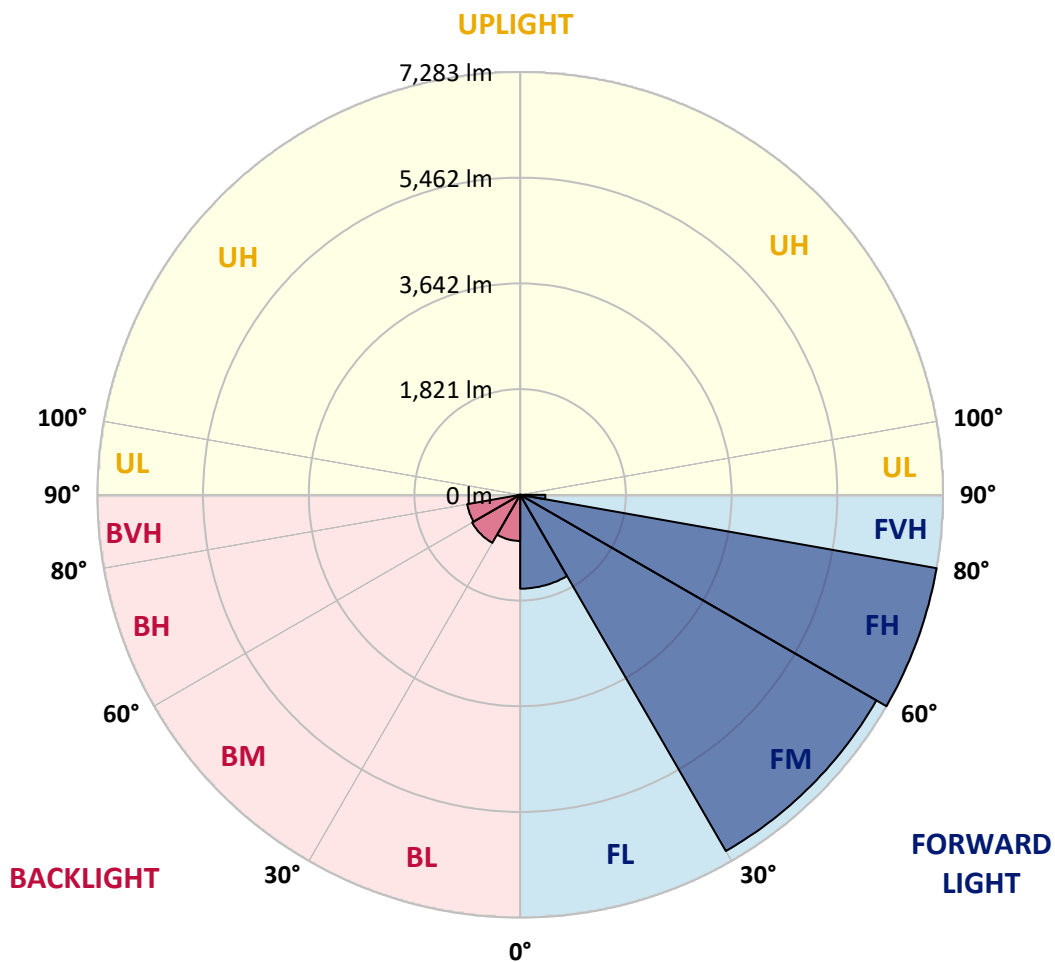
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1616.3	8.4			
FM (30°-60°)	7085.3	37.0			
FH (60°-80°)	7283.2	38.0			G3/7500
FVH (80°-90°)	434.0	2.3			G3/500
BL (0°-30°)	794.5	4.2	B2/1000		
BM (30°-60°)	956.8	5.0	B1/1000		
BH (60°-80°)	925.8	4.8	B2/1000		G2/1000
BVH (80°-90°)	46.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P193694

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4877.7	4877.7	4877.7	4877.7	4877.7	4877.7	4877.7	4877.7	4877.7	4877.7	4877.7
2.5°	4977.5	4988.6	4984.0	4981.2	4989.6	4976.6	4949.8	4941.5	4928.5	4898.0	4846.2
5°	4790.8	4824.0	4822.2	4847.2	4888.8	4899.9	4887.8	4889.7	4865.7	4827.7	4741.7
7.5°	4468.0	4481.9	4489.3	4543.9	4619.7	4680.7	4732.5	4749.1	4738.0	4705.7	4594.7
10°	4135.2	4146.3	4163.8	4227.6	4323.8	4407.9	4506.0	4562.4	4586.4	4580.9	4456.9
12.5°	3849.4	3860.5	3883.6	3955.8	4070.4	4174.0	4316.4	4386.7	4444.0	4478.2	4345.1
15°	3593.3	3617.3	3639.5	3722.8	3851.3	3987.2	4148.1	4236.9	4325.6	4402.4	4246.1
17.5°	3393.6	3417.6	3430.6	3506.4	3643.2	3809.7	3998.3	4102.8	4213.8	4339.5	4148.1
20°	3278.0	3289.1	3283.5	3326.1	3449.0	3625.7	3849.4	3970.6	4104.6	4280.3	4050.1
22.5°	3245.6	3246.5	3226.2	3221.6	3301.1	3450.0	3690.4	3837.4	4002.0	4241.5	3965.9
25°	3324.2	3321.4	3266.0	3220.7	3229.0	3315.9	3536.9	3708.0	3916.0	4233.2	3901.2
27.5°	3499.0	3507.3	3425.0	3339.9	3255.8	3253.0	3420.4	3600.7	3845.7	4271.1	3873.5
30°	3744.0	3757.9	3670.0	3561.9	3403.7	3273.4	3375.1	3536.9	3802.3	4349.7	3868.8
32.5°	4012.2	4027.0	3960.4	3846.7	3639.5	3399.1	3406.5	3542.4	3800.4	4459.7	3900.3
35°	4297.9	4314.5	4280.3	4184.2	3953.9	3631.2	3526.7	3632.1	3860.5	4628.0	3984.4
37.5°	4616.9	4642.8	4652.1	4560.5	4314.5	3937.3	3723.7	3802.3	3996.5	4862.0	4138.9
40°	5076.5	5112.5	5109.8	4978.5	4727.9	4350.6	4027.9	4048.2	4208.2	5174.5	4385.7
42.5°	5956.8	5964.2	5733.9	5448.2	5182.8	4785.2	4386.7	4370.0	4500.4	5570.3	4749.1
45°	7076.6	7046.0	6533.8	5981.7	5658.1	5284.5	4853.6	4772.3	4871.2	6052.9	5204.1
47.5°	8005.9	7935.6	7288.3	6526.4	6161.1	5827.3	5402.0	5259.6	5314.1	6600.3	5792.2
50°	8328.6	8275.9	7739.5	6979.5	6637.3	6489.4	6077.0	5875.4	5890.2	7253.2	6481.1
52.5°	8259.2	8251.8	7894.0	7278.1	7083.0	7184.7	7033.1	6760.3	6616.1	7978.1	7224.5
55°	8095.5	8111.3	7981.8	7625.8	7592.5	7856.1	8282.3	8080.8	7632.3	8709.5	7992.9
57.5°	7526.9	7567.6	7852.4	8063.2	8412.7	8804.8	9288.4	9231.1	8726.2	9500.1	8906.5
60°	6064.0	6158.4	6922.1	7978.1	9256.9	10483.1	10699.4	10566.3	9854.3	10481.2	10113.2
62.5°	4248.9	4346.9	5254.9	6907.3	9118.2	12378.7	13222.0	12647.7	11474.3	11926.5	11675.0
65°	2274.7	2321.9	3015.4	4792.6	7697.9	12769.8	16908.6	16034.8	14039.4	13708.3	13011.1
67.5°	1254.8	1280.7	1546.1	2419.9	4930.4	11245.0	19257.3	19917.5	17245.2	14894.7	12767.9
69°	1134.6	1158.6	1332.5	1832.7	3299.2	9297.6	19028.0	20941.2	18650.7	14777.3	11869.2
70°	1109.6	1131.8	1288.1	1689.4	2670.5	7663.7	18259.6	20679.5	18985.5	14356.5	11085.0
72.5°	998.7	1022.7	1174.3	1517.4	2282.1	3820.8	14463.8	17484.7	17236.9	12448.0	8408.1
75°	931.1	953.3	1210.4	1486.0	2185.0	2418.0	9535.3	12886.3	12670.9	8707.7	4533.7
77.5°	398.5	396.7	561.3	1257.6	2217.4	2341.3	5123.6	8050.2	7344.7	3721.8	1301.9
80°	266.3	261.7	266.3	369.9	2033.4	2354.2	2684.3	4086.1	3086.6	948.7	641.7
82.5°	229.3	225.6	233.9	225.6	714.8	2687.1	2282.1	2173.0	1467.5	539.1	318.1
85°	154.4	147.9	201.6	202.5	337.5	2387.5	2570.6	1835.5	1187.3	319.9	157.2
87.5°	74.0	72.1	117.4	143.3	197.9	970.0	2884.1	1880.8	1197.5	163.7	74.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193694

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4877.7	4877.7	4877.7	4877.7	4877.7	4877.7	4877.7	4877.7	4877.7	4877.7	4877.7
2.5°	4830.5	4792.6	4755.6	4711.2	4665.0	4613.2	4587.3	4561.4	4555.0	4547.6	4521.7
5°	4697.4	4643.7	4551.3	4449.5	4342.3	4237.8	4158.3	4108.3	4070.4	4051.0	4016.8
7.5°	4525.4	4446.8	4285.0	4109.3	3929.0	3764.4	3622.0	3532.3	3447.2	3407.4	3362.1
10°	4361.7	4244.3	3992.8	3733.8	3474.9	3226.2	2992.3	2826.7	2679.7	2597.4	2539.2
12.5°	4221.2	4060.3	3711.7	3361.2	3006.1	2652.0	2301.5	2026.0	1795.7	1674.6	1612.6
15°	4084.3	3890.1	3444.4	2999.7	2543.8	2062.0	1601.5	1289.0	1098.5	1022.7	996.8
17.5°	3960.4	3711.7	3176.3	2635.3	2066.7	1484.1	1076.3	904.3	831.3	806.3	798.0
20°	3826.3	3531.3	2897.9	2254.4	1569.2	1037.5	840.5	764.7	735.1	727.7	724.0
22.5°	3696.9	3353.8	2631.6	1846.6	1127.2	800.8	722.2	690.7	686.1	692.6	692.6
25°	3586.8	3194.8	2344.1	1420.3	827.6	674.1	646.3	639.0	656.5	680.6	685.2
27.5°	3504.5	3064.4	2038.0	1048.6	659.3	586.2	585.3	597.3	640.8	687.0	696.3
30°	3448.1	2940.5	1710.7	756.4	553.0	516.0	530.8	556.7	620.5	686.1	703.7
32.5°	3419.5	2848.9	1369.4	585.3	473.4	453.1	478.1	509.5	572.4	633.4	656.5
35°	3441.6	2781.4	1047.7	488.2	418.0	402.2	428.1	458.6	495.6	521.5	539.1
37.5°	3524.9	2754.6	790.6	437.4	380.0	365.2	385.6	403.2	418.0	425.4	433.7
40°	3704.3	2783.3	633.4	411.5	358.8	340.3	348.6	355.1	364.3	371.7	375.4
42.5°	3968.7	2869.3	567.8	401.3	347.7	320.9	319.0	321.8	333.8	347.7	350.5
45°	4338.6	3020.9	563.1	407.8	342.1	305.1	296.8	300.5	319.0	340.3	344.0
47.5°	4811.1	3252.1	600.1	427.2	346.8	296.8	283.0	287.6	310.7	339.4	344.0
50°	5383.5	3574.8	662.1	455.9	367.1	298.7	278.3	281.1	305.1	336.6	341.2
52.5°	6059.4	4032.5	729.6	483.6	388.4	310.7	282.0	275.6	297.7	325.5	331.0
55°	6811.2	4619.7	798.9	508.6	399.5	325.5	289.4	268.2	283.9	307.0	311.6
57.5°	7734.0	5440.8	919.1	532.6	406.9	335.7	296.8	260.8	266.3	283.0	286.6
60°	8983.2	6602.2	1130.9	572.4	423.5	339.4	295.9	254.3	248.7	258.0	259.8
62.5°	10480.3	7863.5	1307.5	622.3	451.2	342.1	290.3	249.7	233.9	233.9	235.8
65°	11368.9	8201.0	1209.5	663.9	474.4	339.4	283.9	245.0	222.8	212.7	213.6
67.5°	10615.3	7212.5	1036.6	672.2	473.4	326.4	273.7	236.7	211.8	196.0	195.1
69°	9671.2	6223.1	958.9	650.0	451.2	309.8	260.8	227.5	203.4	186.8	185.9
70°	8910.2	5619.3	908.0	626.0	427.2	297.7	250.6	219.1	197.0	181.2	179.4
72.5°	6478.3	3682.1	775.8	538.2	352.3	249.7	216.4	192.3	175.7	166.4	164.6
75°	3237.3	1756.0	629.7	436.4	270.0	199.7	177.5	160.9	152.6	150.7	149.8
77.5°	1063.4	804.5	450.3	325.5	200.7	156.3	143.3	131.3	129.5	135.0	133.2
80°	584.4	467.9	285.7	215.4	136.9	114.7	112.8	106.3	109.1	118.4	116.5
82.5°	297.7	243.2	176.6	129.5	92.5	82.3	89.7	86.0	89.7	98.0	97.1
85°	147.0	133.2	111.9	78.6	61.0	52.7	63.8	66.6	68.4	74.9	74.9
87.5°	85.1	78.6	59.2	37.0	30.5	27.7	37.0	36.1	42.5	46.2	45.3
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)