

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: STREETWORKS

Report Number: P200258

Luminaire Tested: **GAP-AF-02-LED-U-AFL-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-AFL-7050-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13980 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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: 28.75 FT

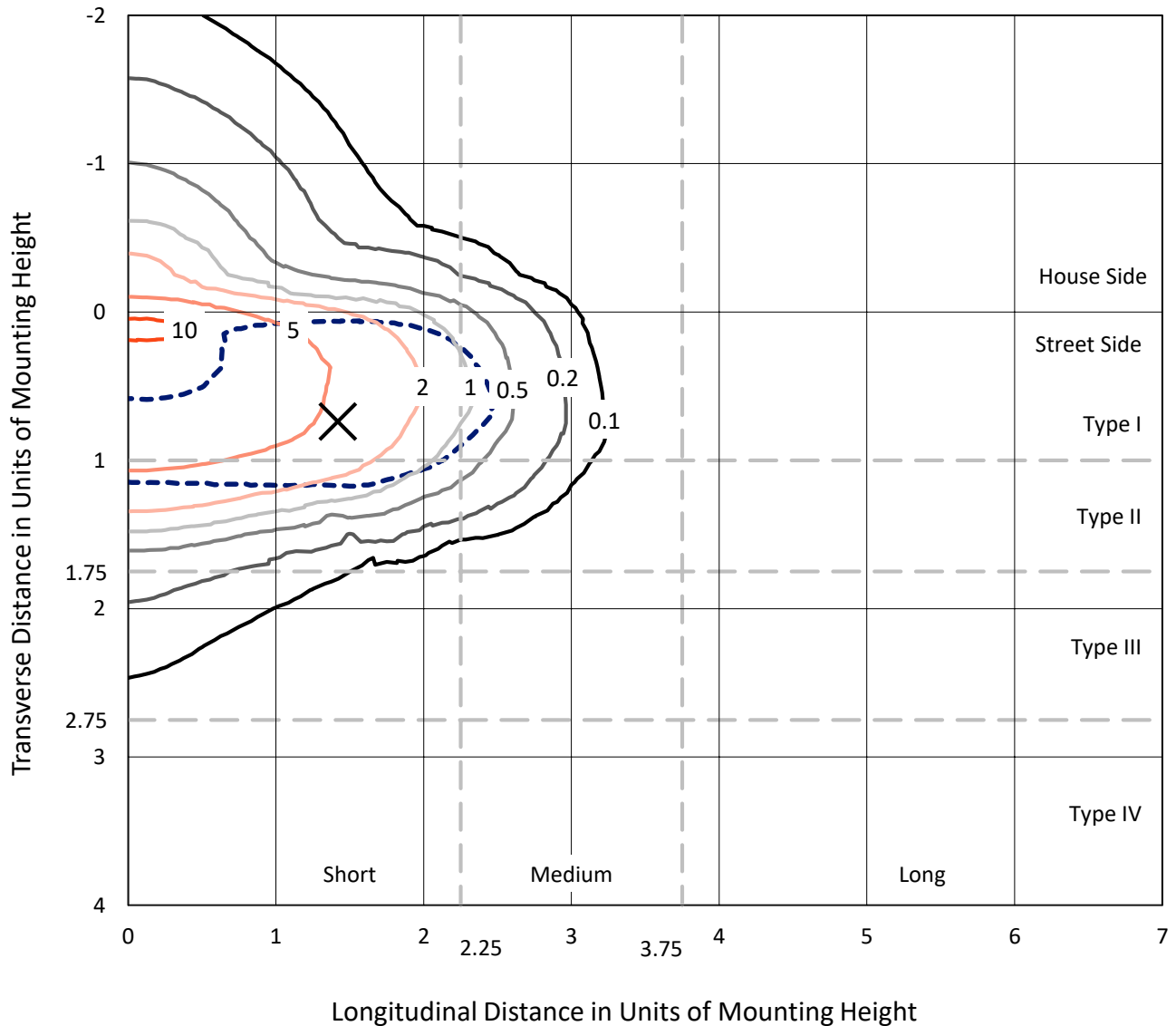


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

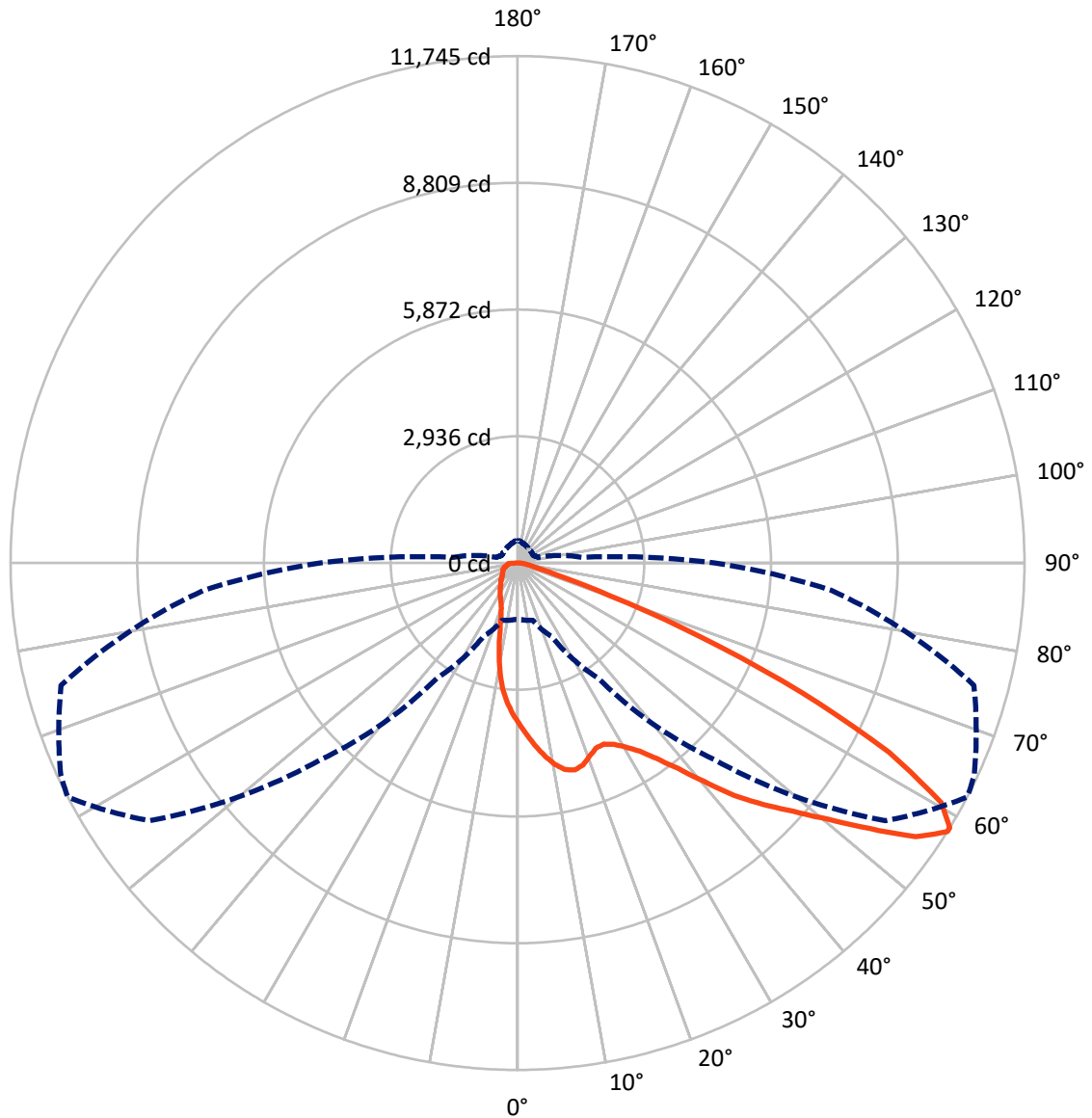


Based on 20 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2132.0	0.0	2132.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11848.0	0.0	11848.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	13980.0	0.0	13980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.1	2.4
10°-20°	848.9	6.1
20°-30°	1372.3	9.8
30°-40°	2178.6	15.6
40°-50°	3187.7	22.8
50°-60°	3334.1	23.8
60°-70°	1969.8	14.1
70°-80°	554.9	4.0
80°-90°	201.5	1.4
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°	13980.0	100.0
0°-180°	13980.0	100.0

Coefficient of Utilization



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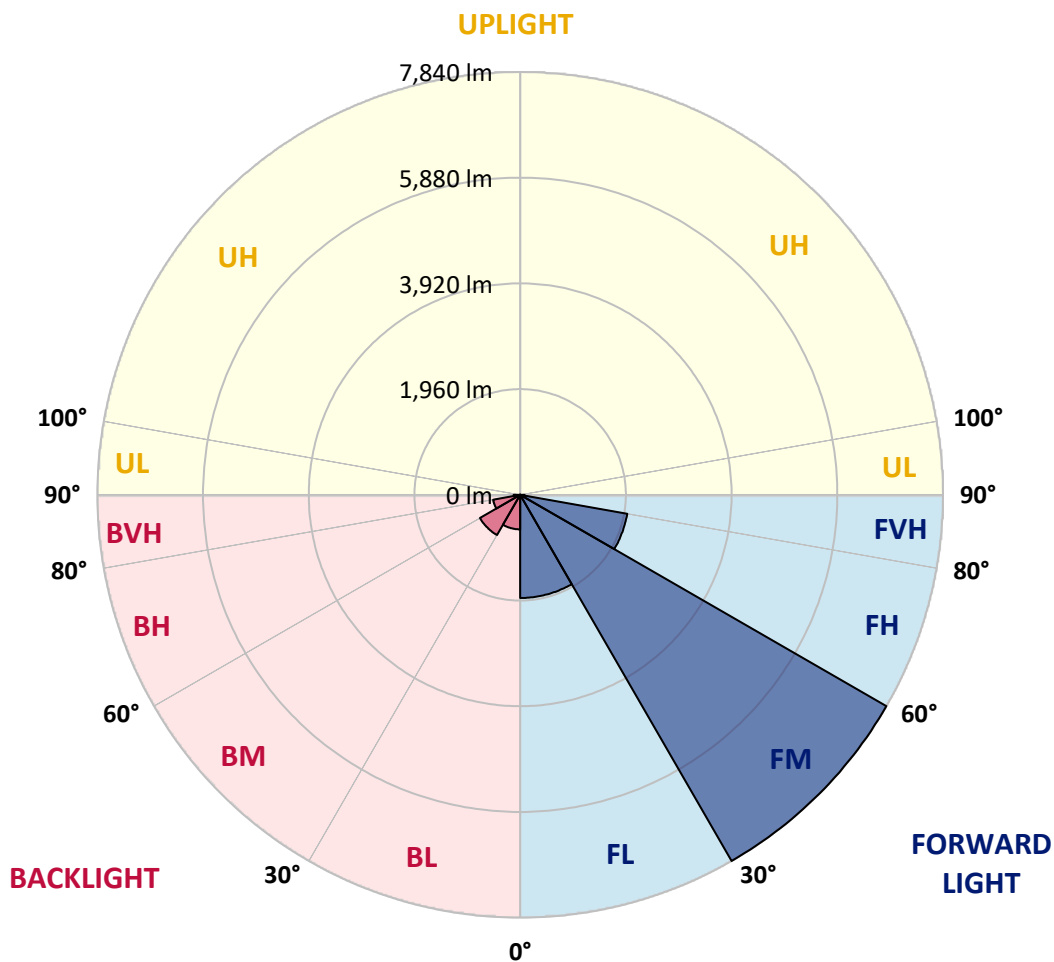
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1912.6	13.7			
FM	(30°-60°)	7839.9	56.1			
FH	(60°-80°)	2016.0	14.4			G2/5000
FVH	(80°-90°)	79.5	0.6			G1/100
BL	(0°-30°)	640.8	4.6	B2/1000		
BM	(30°-60°)	860.5	6.2	B1/1000		
BH	(60°-80°)	508.7	3.6	B2/1000		G2/1000
BVH	(80°-90°)	122.0	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5
2.5°	4243.4	4209.2	4187.5	4168.4	4143.4	4090.1	4018.3	3972.9	3949.8	3871.5	3778.7
5°	4659.5	4629.2	4606.8	4581.1	4536.4	4452.8	4336.9	4244.8	4199.3	4042.7	3857.0
7.5°	4562.1	4574.6	4613.4	4681.2	4739.1	4728.0	4624.6	4507.4	4447.5	4229.6	3947.9
10°	3974.8	3996.6	4063.7	4222.4	4479.1	4742.4	4822.7	4741.8	4681.2	4414.6	4041.3
12.5°	3857.0	3856.4	3861.6	3903.8	4056.5	4427.1	4829.3	4911.0	4874.8	4591.0	4136.8
15°	3905.1	3906.4	3902.4	3920.2	3967.6	4114.4	4627.9	4976.1	5001.8	4768.8	4235.5
17.5°	4031.5	4028.2	4013.0	4013.0	4030.1	4087.4	4390.9	4915.6	5034.1	4926.1	4322.4
20°	4243.4	4228.3	4188.1	4151.3	4132.8	4163.8	4293.5	4776.0	4978.1	5063.7	4394.2
22.5°	4500.2	4488.3	4423.2	4344.2	4280.3	4279.6	4343.5	4654.2	4881.3	5193.4	4454.8
25°	4832.0	4812.9	4716.1	4589.7	4477.8	4435.0	4452.8	4648.3	4828.7	5334.3	4508.7
27.5°	5221.7	5186.8	5072.2	4889.9	4725.3	4639.1	4613.4	4755.6	4876.7	5508.7	4583.8
30°	5694.3	5654.2	5507.4	5269.7	5037.4	4895.8	4841.2	4945.9	5036.0	5721.3	4704.3
32.5°	6232.2	6174.2	6004.4	5742.4	5436.9	5221.0	5132.2	5197.3	5269.1	5977.4	4855.0
35°	6975.4	6906.3	6660.7	6299.3	5954.4	5657.5	5515.3	5562.7	5632.5	6359.2	5072.9
37.5°	7482.3	7451.4	7288.1	6948.4	6573.2	6231.5	6011.6	6039.3	6078.8	6836.5	5352.0
40°	7477.7	7490.2	7493.5	7496.8	7241.4	6914.2	6677.9	6648.9	6641.0	7360.5	5669.3
42.5°	7103.1	7154.5	7320.4	7656.8	7812.1	7662.0	7445.4	7361.8	7320.4	7978.0	6005.7
45°	6529.7	6557.4	6868.1	7525.1	8104.4	8402.6	8238.7	7975.4	7900.3	8545.5	6284.8
47.5°	6234.2	6264.4	6460.0	7176.2	8101.1	9001.0	9095.8	8594.2	8459.9	9039.2	6525.8
50°	5530.4	5593.6	5839.8	6569.2	7805.5	9276.2	9991.8	9331.5	9053.7	9519.8	6767.4
52.5°	4238.2	4335.6	4611.4	5571.2	7055.7	9139.9	10708.7	10225.5	9833.1	10017.4	6974.7
55°	2673.4	2745.8	2977.5	3934.7	5644.3	8430.9	10980.5	11192.5	10843.6	10488.8	7154.5
57.5°	1453.5	1485.8	1572.7	2172.4	3671.4	6863.5	10584.2	11742.9	11598.0	10889.0	7290.1
58°	1300.8	1322.5	1376.5	1882.8	3256.0	6434.9	10408.5	11744.8	11672.4	10947.6	7300.6
60°	965.1	953.9	905.8	1074.4	1812.3	4445.5	9346.0	11274.8	11487.4	11019.4	7249.3
62.5°	847.9	820.9	722.8	711.6	881.5	2048.0	7151.2	9658.0	10160.3	10609.9	6937.2
65°	796.5	767.6	641.2	600.4	635.9	866.3	4212.5	7243.3	7873.3	9368.3	6139.4
67.5°	758.4	720.8	589.2	533.2	535.9	572.7	1688.6	4562.1	5271.1	7113.0	4775.3
70°	721.5	680.7	545.1	480.6	465.4	452.9	671.5	2283.7	2926.8	4492.9	3044.7
72.5°	682.0	641.8	506.2	439.1	409.5	368.0	438.4	934.1	1304.8	2125.7	1381.1
75°	624.7	588.5	467.4	402.2	360.1	304.8	331.1	487.8	585.2	846.6	665.5
77.5°	554.3	524.7	423.9	371.9	319.3	247.5	254.8	338.4	375.2	484.5	395.6
80°	398.3	408.8	377.2	334.4	284.4	200.8	195.5	246.9	266.6	311.4	257.4
82.5°	279.8	285.7	312.0	273.2	235.0	158.0	144.2	173.8	185.6	204.7	138.9
85°	192.9	186.3	213.9	190.3	169.8	105.3	98.7	117.8	125.1	127.1	71.8
87.5°	115.9	115.9	123.8	102.0	91.5	54.6	53.3	67.1	71.8	68.5	39.5
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°	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5	3713.5
2.5°	3723.4	3676.6	3577.2	3497.6	3396.9	3292.2	3233.6	3171.1	3128.3	3097.3	3146.7
5°	3751.7	3656.2	3450.8	3256.0	3040.7	2816.9	2647.0	2489.1	2379.1	2310.7	2375.2
7.5°	3796.4	3649.6	3322.5	2989.4	2602.9	2230.3	1897.2	1688.6	1566.8	1506.9	1544.4
10°	3847.8	3639.1	3171.7	2628.0	2075.0	1605.6	1356.8	1272.5	1244.9	1233.7	1238.9
12.5°	3890.6	3616.7	2986.7	2190.8	1558.2	1267.9	1196.1	1194.2	1200.1	1201.4	1203.4
15°	3920.9	3583.8	2712.2	1735.3	1246.2	1155.3	1151.4	1163.2	1174.4	1179.0	1181.7
17.5°	3941.3	3516.0	2402.2	1371.9	1116.5	1100.7	1109.9	1125.0	1136.9	1140.2	1142.8
20°	3939.3	3416.6	2032.8	1144.1	1046.0	1046.0	1061.8	1073.7	1074.4	1070.4	1072.4
22.5°	3918.9	3280.3	1674.7	1023.0	983.5	994.7	1010.5	999.3	953.2	922.9	924.9
25°	3884.7	3117.7	1368.0	946.0	925.6	945.3	940.7	856.5	790.6	761.0	761.0
27.5°	3854.4	2925.5	1132.3	878.8	867.6	892.0	810.4	734.0	706.4	692.5	687.9
30°	3832.7	2718.1	975.0	814.3	813.0	795.2	703.1	682.0	677.4	666.2	662.3
32.5°	3837.9	2508.1	874.2	757.7	762.3	680.7	651.7	656.3	652.4	640.5	635.3
35°	3881.4	2308.7	808.4	706.4	692.5	614.9	621.4	630.0	628.7	612.2	607.0
37.5°	3959.1	2119.7	765.0	663.6	604.3	581.9	592.5	605.6	602.3	591.2	587.2
40°	4040.7	1942.0	729.4	630.0	552.3	559.6	568.8	576.0	579.3	582.6	580.0
42.5°	4120.3	1756.4	686.0	595.8	530.6	538.5	542.4	549.7	567.5	580.0	579.3
45°	4167.7	1581.9	641.2	547.1	513.5	518.1	515.5	529.9	551.7	572.1	572.7
47.5°	4220.4	1446.3	605.6	502.3	497.0	500.3	492.4	506.9	526.6	551.7	554.3
50°	4284.3	1365.3	577.3	466.7	474.6	474.6	472.7	485.8	513.5	542.4	547.7
52.5°	4356.7	1349.5	553.6	441.1	452.3	451.6	453.6	473.3	503.6	531.9	536.5
55°	4444.9	1392.3	528.0	422.0	430.5	433.2	439.7	462.1	487.8	520.1	522.0
57.5°	4547.6	1479.2	507.6	406.8	410.8	419.3	429.9	450.3	477.9	513.5	515.5
58°	4564.7	1497.6	504.3	405.5	406.8	416.7	428.6	448.3	476.0	514.8	516.8
60°	4565.3	1558.9	497.0	399.6	391.7	408.1	421.3	441.1	472.7	519.4	524.0
62.5°	4403.4	1558.2	491.8	391.0	375.9	396.3	411.4	434.5	469.4	530.6	539.8
65°	3877.4	1416.0	466.7	377.9	363.4	385.8	402.9	429.9	478.6	579.3	585.2
67.5°	3032.8	1160.6	420.0	359.4	346.9	375.2	397.6	429.2	488.5	590.5	594.5
70°	2005.2	868.3	368.7	338.4	329.8	362.7	400.2	451.6	477.3	566.8	556.3
72.5°	1040.8	609.6	327.2	312.0	310.1	351.5	438.4	449.0	466.1	533.2	520.1
75°	546.4	423.3	291.0	283.1	286.4	348.9	517.4	437.1	451.6	510.2	535.2
77.5°	334.4	341.7	260.0	256.7	263.3	341.0	516.8	422.0	430.5	469.4	497.0
80°	223.8	277.1	236.3	237.0	241.6	312.0	464.1	398.3	404.9	443.7	472.0
82.5°	141.5	163.9	214.6	225.8	219.9	257.4	394.3	362.7	371.9	507.6	536.5
85°	71.8	102.7	186.3	217.2	198.2	180.4	319.9	318.0	322.6	366.0	382.5
87.5°	32.9	56.6	145.5	189.6	149.4	112.6	232.4	235.7	254.1	260.0	260.0
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)