

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: P200256

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200256
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
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12744 lumens
Efficiency: N/A
Efficacy: 112.8 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): 113
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

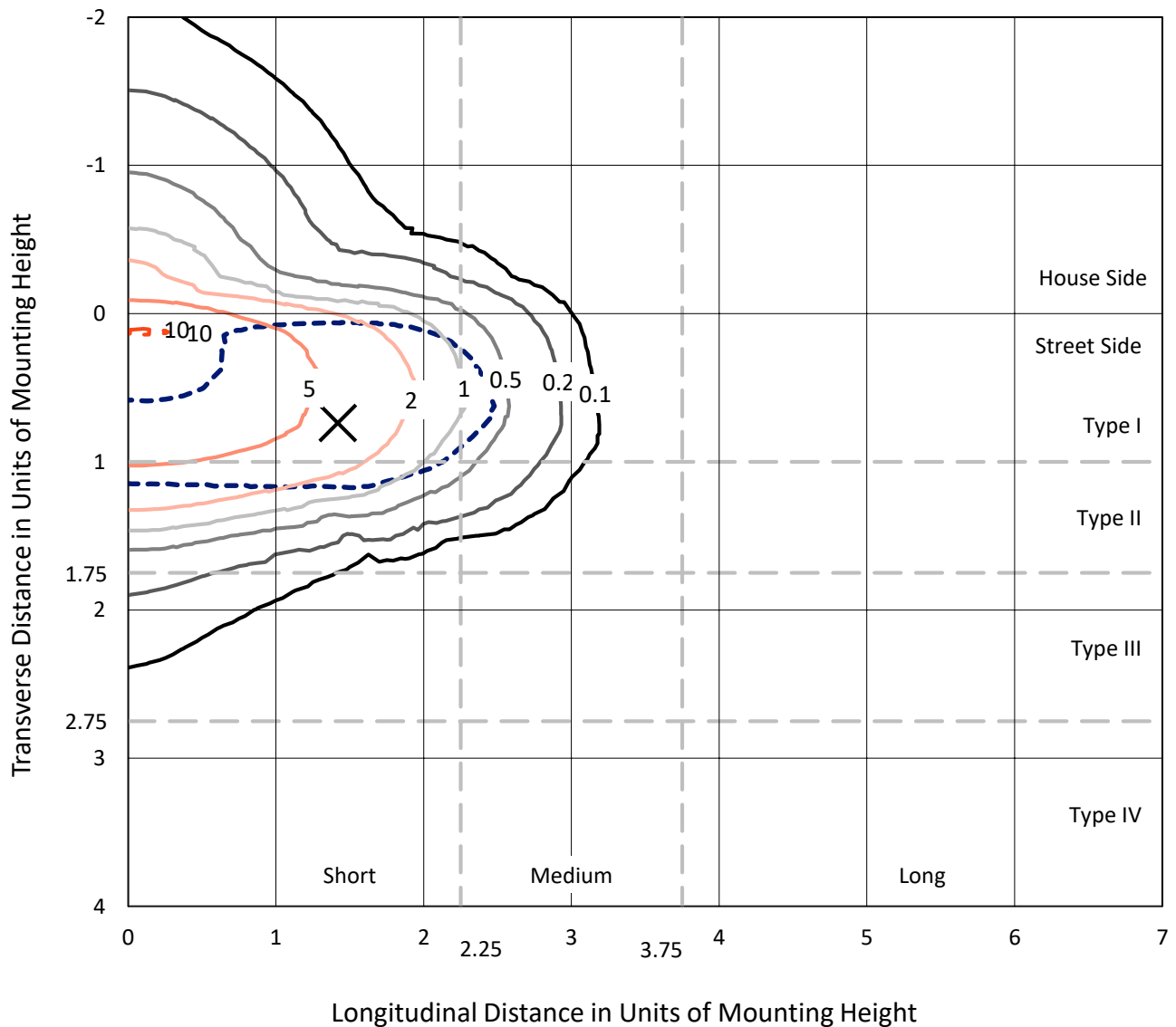


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Iso-Footcandle Lines of Horizontal Illumination

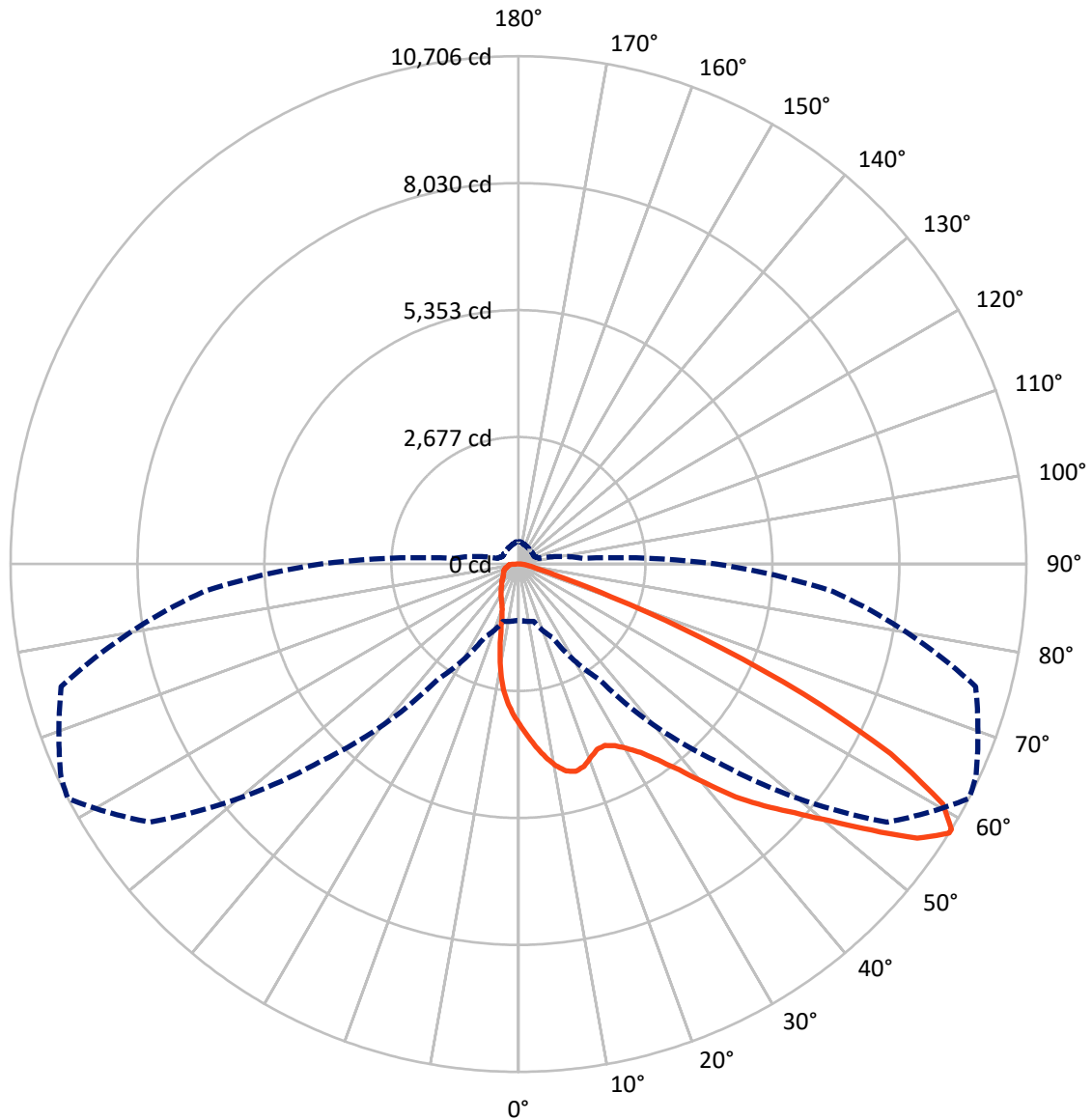
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 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	1943.5	0.0	1943.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10800.5	0.0	10800.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	12744.0	0.0	12744.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	2.4
10°-20°	773.9	6.1
20°-30°	1251.0	9.8
30°-40°	1986.0	15.6
40°-50°	2905.9	22.8
50°-60°	3039.3	23.8
60°-70°	1795.7	14.1
70°-80°	505.9	4.0
80°-90°	183.6	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°	12744.0	100.0
0°-180°	12744.0	100.0



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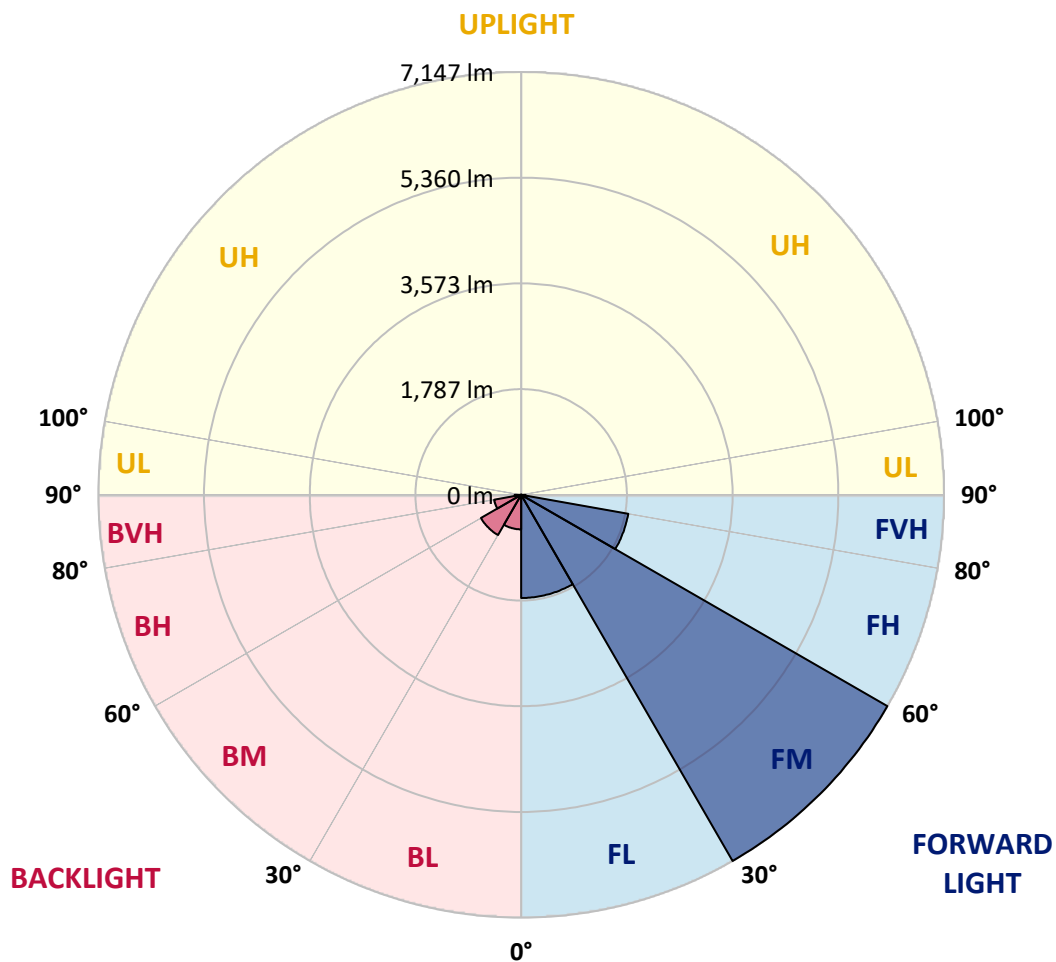
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1743.5	13.7			
FM	(30°-60°)	7146.8	56.1			
FH	(60°-80°)	1837.7	14.4			G2/5000
FVH	(80°-90°)	72.4	0.6			G1/100
BL	(0°-30°)	584.1	4.6	B2/1000		
BM	(30°-60°)	784.5	6.2	B1/1000		
BH	(60°-80°)	463.8	3.6	B1/500		G1/500
BVH	(80°-90°)	111.2	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°	3385.2	3385.2	3385.2	3385.2	3385.2	3385.2	3385.2	3385.2	3385.2	3385.2	3385.2
2.5°	3868.3	3837.1	3817.3	3799.9	3777.1	3728.4	3663.0	3621.6	3600.6	3529.2	3444.6
5°	4247.5	4219.9	4199.5	4176.1	4135.3	4059.1	3953.5	3869.5	3828.1	3685.2	3516.0
7.5°	4158.7	4170.1	4205.5	4267.3	4320.1	4309.9	4215.7	4108.9	4054.3	3855.7	3598.8
10°	3623.4	3643.2	3704.4	3849.1	4083.1	4323.1	4396.4	4322.5	4267.3	4024.3	3684.0
12.5°	3516.0	3515.4	3520.2	3558.6	3697.8	4035.7	4402.4	4476.8	4443.8	4185.1	3771.1
15°	3559.8	3561.0	3557.4	3573.6	3616.8	3750.6	4218.7	4536.2	4559.6	4347.2	3861.1
17.5°	3675.0	3672.0	3658.2	3658.2	3673.8	3726.0	4002.7	4481.0	4589.0	4490.6	3940.3
20°	3868.3	3854.5	3817.9	3784.3	3767.5	3795.7	3913.9	4353.8	4538.0	4616.0	4005.7
22.5°	4102.3	4091.5	4032.1	3960.1	3901.9	3901.3	3959.5	4242.7	4449.8	4734.2	4060.9
25°	4404.8	4387.4	4299.1	4183.9	4081.9	4042.9	4059.1	4237.3	4401.8	4862.6	4110.1
27.5°	4760.0	4728.2	4623.8	4457.6	4307.5	4228.9	4205.5	4335.1	4445.6	5021.7	4178.5
30°	5190.9	5154.3	5020.5	4803.8	4592.0	4463.0	4413.2	4508.6	4590.8	5215.5	4288.3
32.5°	5681.2	5628.4	5473.5	5234.7	4956.3	4759.4	4678.4	4737.8	4803.2	5448.9	4425.8
35°	6358.7	6295.7	6071.8	5742.4	5427.9	5157.3	5027.7	5070.9	5134.5	5797.0	4624.4
37.5°	6820.8	6792.6	6643.7	6334.1	5992.0	5680.6	5480.1	5505.3	5541.4	6232.1	4878.8
40°	6816.6	6828.0	6831.0	6834.0	6601.1	6302.9	6087.5	6061.0	6053.8	6709.8	5168.1
42.5°	6475.1	6521.9	6673.2	6979.8	7121.4	6984.6	6787.2	6711.0	6673.2	7272.7	5474.7
45°	5952.4	5977.6	6260.9	6859.8	7387.9	7659.7	7510.3	7270.3	7201.8	7789.9	5729.2
47.5°	5683.0	5710.6	5888.8	6541.7	7384.9	8205.2	8291.6	7834.4	7711.9	8240.0	5948.8
50°	5041.5	5099.1	5323.5	5988.4	7115.4	8456.1	9108.4	8506.5	8253.2	8678.1	6169.1
52.5°	3863.5	3952.3	4203.7	5078.7	6431.9	8331.8	9761.9	9321.4	8963.7	9131.8	6358.1
55°	2437.0	2503.0	2714.3	3586.8	5145.3	7685.5	10009.7	10203.0	9884.9	9561.4	6521.9
57.5°	1325.0	1354.4	1433.6	1980.3	3346.8	6256.7	9648.5	10704.6	10572.6	9926.3	6645.5
58°	1185.8	1205.6	1254.8	1716.3	2968.1	5866.0	9488.2	10706.4	10640.4	9979.7	6655.1
60°	879.8	869.6	825.7	979.4	1652.1	4052.5	8519.7	10278.0	10471.8	10045.1	6608.3
62.5°	772.9	748.3	658.9	648.7	803.5	1866.9	6518.9	8804.1	9262.0	9671.9	6323.9
65°	726.1	699.7	584.5	547.3	579.7	789.7	3840.1	6602.9	7177.2	8540.1	5596.6
67.5°	691.3	657.1	537.1	486.1	488.5	522.1	1539.3	4158.7	4805.0	6484.1	4353.2
70°	657.7	620.5	496.9	438.1	424.3	412.9	612.1	2081.8	2668.1	4095.7	2775.5
72.5°	621.7	585.1	461.5	400.3	373.3	335.5	399.7	851.5	1189.4	1937.7	1259.0
75°	569.5	536.5	426.1	366.7	328.3	277.8	301.9	444.7	533.5	771.7	606.7
77.5°	505.3	478.3	386.5	339.1	291.1	225.6	232.2	308.5	342.1	441.7	360.7
80°	363.1	372.7	343.9	304.9	259.2	183.0	178.2	225.0	243.0	283.8	234.6
82.5°	255.0	260.4	284.4	249.0	214.2	144.0	131.4	158.4	169.2	186.6	126.6
85°	175.8	169.8	195.0	173.4	154.8	96.0	90.0	107.4	114.0	115.8	65.4
87.5°	105.6	105.6	112.8	93.0	83.4	49.8	48.6	61.2	65.4	62.4	36.0
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°	3385.2	3385.2	3385.2	3385.2	3385.2	3385.2	3385.2	3385.2	3385.2	3385.2	3385.2
2.5°	3394.2	3351.6	3261.0	3188.4	3096.5	3001.1	2947.7	2890.7	2851.7	2823.5	2868.5
5°	3420.0	3333.0	3145.7	2968.1	2771.9	2567.8	2413.0	2269.0	2168.8	2106.4	2165.2
7.5°	3460.8	3327.0	3028.7	2725.1	2372.8	2033.2	1729.5	1539.3	1428.2	1373.6	1407.8
10°	3507.6	3317.4	2891.3	2395.6	1891.5	1463.7	1236.8	1160.0	1134.8	1124.6	1129.4
12.5°	3546.6	3297.0	2722.7	1997.1	1420.4	1155.8	1090.4	1088.6	1094.0	1095.2	1097.0
15°	3574.2	3267.0	2472.4	1581.9	1136.0	1053.2	1049.6	1060.4	1070.6	1074.8	1077.2
17.5°	3592.8	3205.2	2189.8	1250.6	1017.8	1003.4	1011.8	1025.6	1036.4	1039.4	1041.8
20°	3591.0	3114.5	1853.1	1043.0	953.6	953.6	968.0	978.8	979.4	975.8	977.6
22.5°	3572.4	2990.3	1526.7	932.6	896.6	906.8	921.2	911.0	868.9	841.3	843.1
25°	3541.2	2842.1	1247.0	862.3	843.7	861.7	857.5	780.7	720.7	693.7	693.7
27.5°	3513.6	2666.9	1032.2	801.1	790.9	813.1	738.7	669.1	643.9	631.3	627.1
30°	3493.8	2477.8	888.8	742.3	741.1	724.9	640.9	621.7	617.5	607.3	603.7
32.5°	3498.6	2286.4	796.9	690.7	694.9	620.5	594.1	598.3	594.7	583.9	579.1
35°	3538.2	2104.6	736.9	643.9	631.3	560.5	566.5	574.3	573.1	558.1	553.3
37.5°	3609.0	1932.3	697.3	604.9	550.9	530.5	540.1	552.1	549.1	538.9	535.3
40°	3683.4	1770.3	664.9	574.3	503.5	510.1	518.5	525.1	528.1	531.1	528.7
42.5°	3756.0	1601.1	625.3	543.1	483.7	490.9	494.5	501.1	517.3	528.7	528.1
45°	3799.3	1442.0	584.5	498.7	468.1	472.3	469.9	483.1	502.9	521.5	522.1
47.5°	3847.3	1318.4	552.1	457.9	453.1	456.1	448.9	462.1	480.1	502.9	505.3
50°	3905.5	1244.6	526.3	425.5	432.7	432.7	430.9	442.9	468.1	494.5	499.3
52.5°	3971.5	1230.2	504.7	402.1	412.3	411.7	413.5	431.5	459.1	484.9	489.1
55°	4051.9	1269.2	481.3	384.7	392.5	394.9	400.9	421.3	444.7	474.1	475.9
57.5°	4145.5	1348.4	462.7	370.9	374.5	382.3	391.9	410.5	435.7	468.1	469.9
58°	4161.1	1365.2	459.7	369.7	370.9	379.9	390.7	408.7	433.9	469.3	471.1
60°	4161.7	1421.0	453.1	364.3	357.1	372.1	384.1	402.1	430.9	473.5	477.7
62.5°	4014.1	1420.4	448.3	356.5	342.7	361.3	375.1	396.1	427.9	483.7	492.1
65°	3534.6	1290.8	425.5	344.5	331.3	351.7	367.3	391.9	436.3	528.1	533.5
67.5°	2764.7	1058.0	382.9	327.7	316.3	342.1	362.5	391.3	445.3	538.3	541.9
70°	1827.9	791.5	336.1	308.5	300.7	330.7	364.9	411.7	435.1	516.7	507.1
72.5°	948.8	555.7	298.3	284.4	282.6	320.5	399.7	409.3	424.9	486.1	474.1
75°	498.1	385.9	265.2	258.0	261.0	318.1	471.7	398.5	411.7	465.1	487.9
77.5°	304.9	311.5	237.0	234.0	240.0	310.9	471.1	384.7	392.5	427.9	453.1
80°	204.0	252.6	215.4	216.0	220.2	284.4	423.1	363.1	369.1	404.5	430.3
82.5°	129.0	149.4	195.6	205.8	200.4	234.6	359.5	330.7	339.1	462.7	489.1
85°	65.4	93.6	169.8	198.0	180.6	164.4	291.7	289.9	294.1	333.7	348.7
87.5°	30.0	51.6	132.6	172.8	136.2	102.6	211.8	214.8	231.6	237.0	237.0
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)