

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: P268418

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268418
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: GAN-AF-04-LED-U-AFL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23478 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 258
Input Voltage (V): NR
Input Current (A_{in}): 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

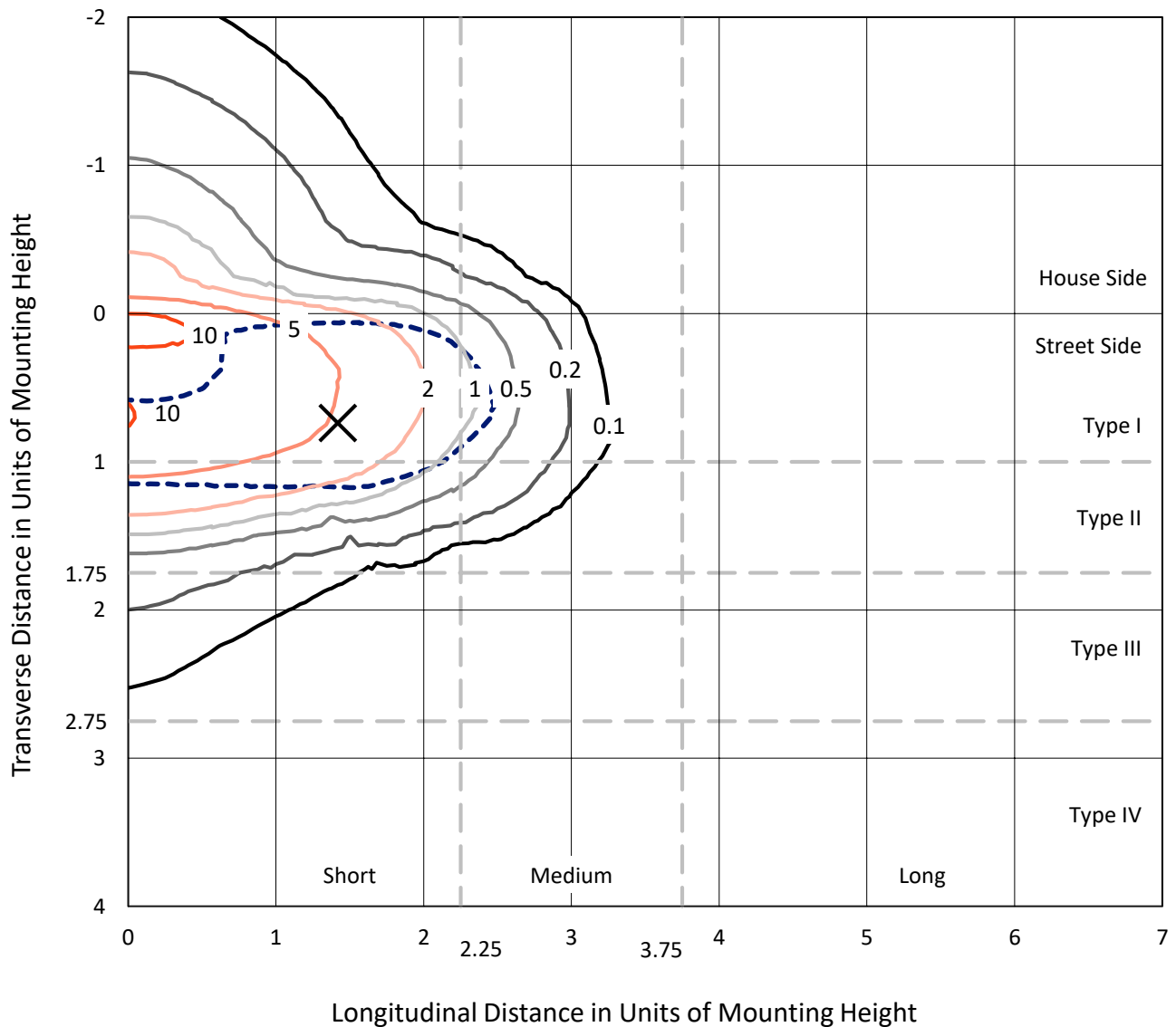


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

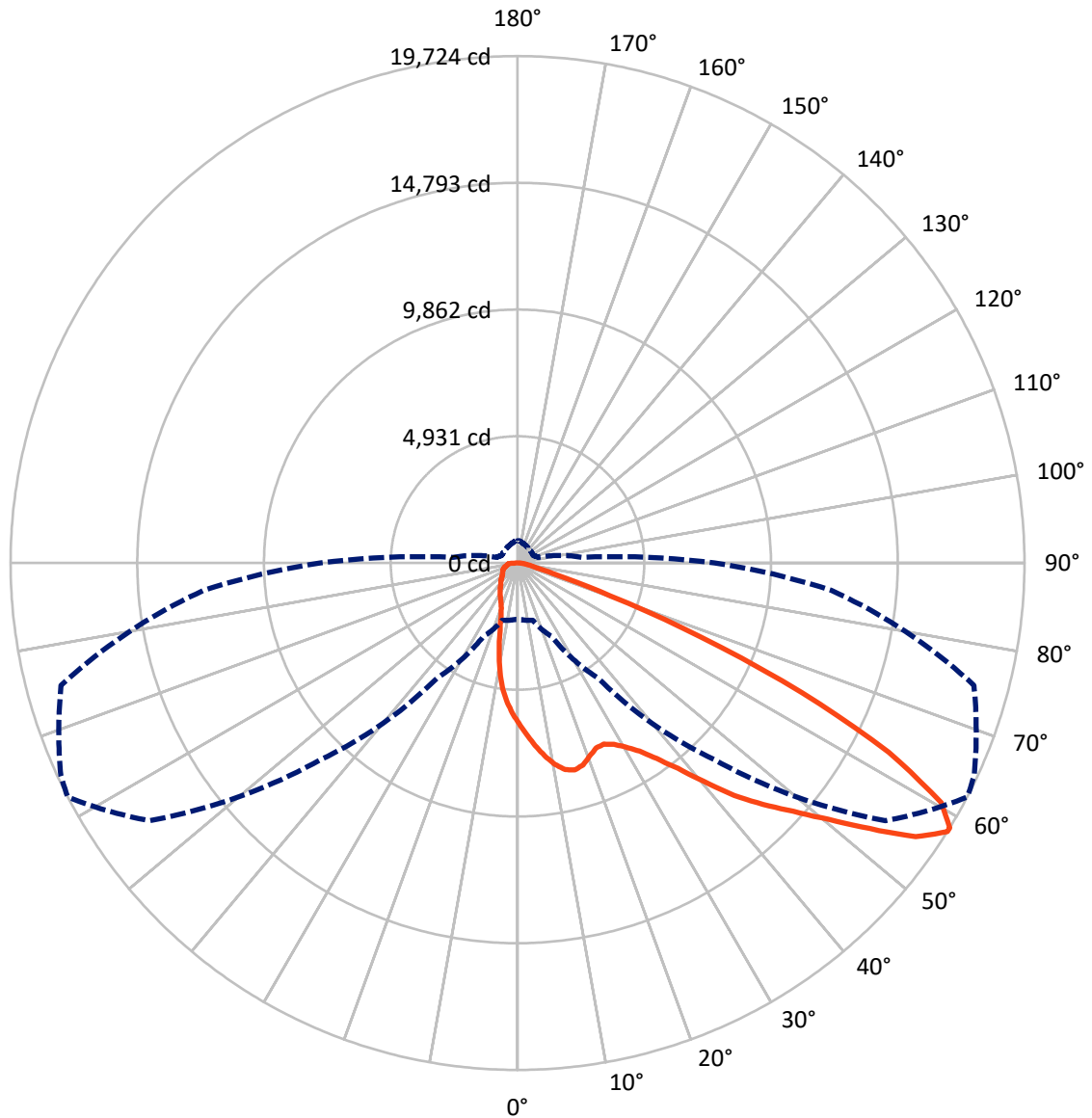


Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - Full Cutoff

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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	3580.5	0.0	3580.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	19897.5	0.0	19897.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	23478.0	0.0	23478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.8	2.4
10°-20°	1425.7	6.1
20°-30°	2304.7	9.8
30°-40°	3658.7	15.6
40°-50°	5353.5	22.8
50°-60°	5599.3	23.8
60°-70°	3308.1	14.1
70°-80°	931.9	4.0
80°-90°	338.3	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°	23478.0	100.0
0°-180°	23478.0	100.0

Coefficient of Utilization



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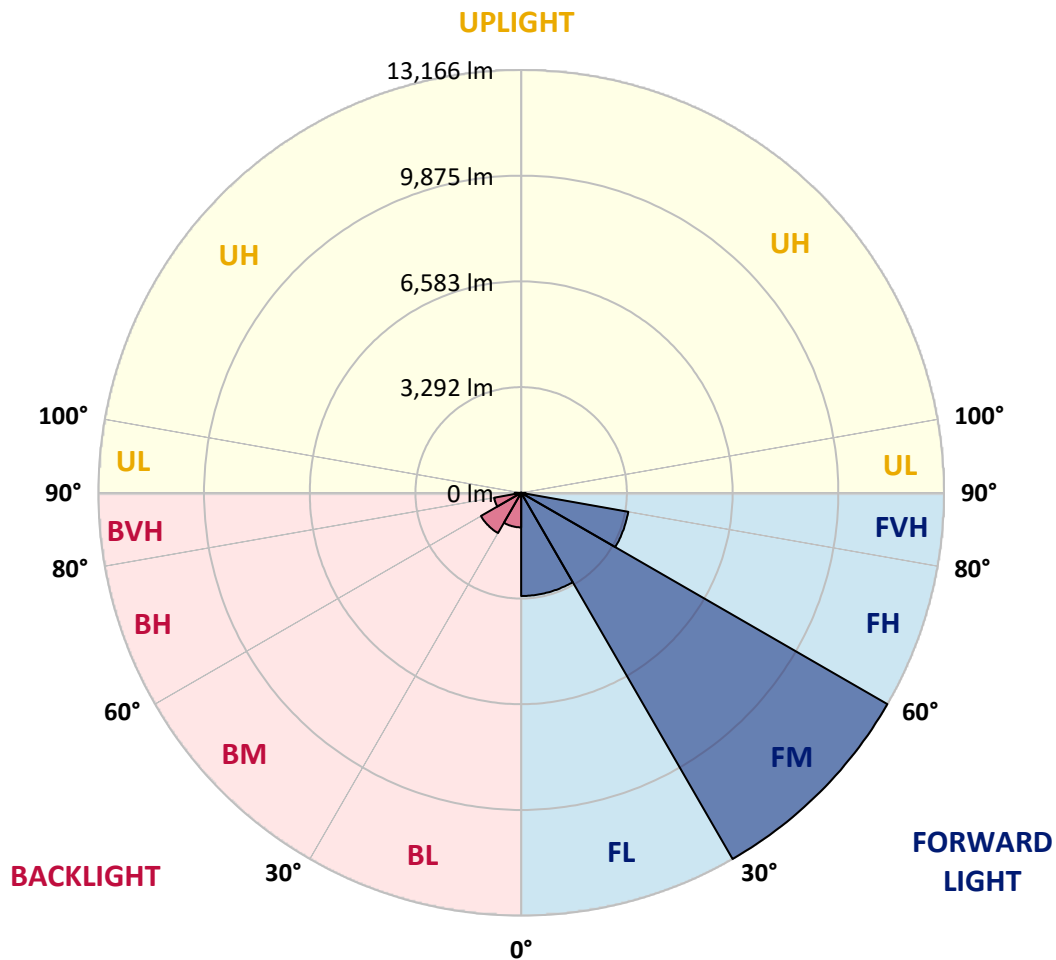
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3212.1	13.7			
FM	(30°-60°)	13166.3	56.1			
FH	(60°-80°)	3385.6	14.4			G2/5000
FVH	(80°-90°)	133.5	0.6			G2/225
BL	(0°-30°)	1076.1	4.6	B3/2500		
BM	(30°-60°)	1445.2	6.2	B2/2500		
BH	(60°-80°)	854.3	3.6	B2/1000		G2/1000
BVH	(80°-90°)	204.9	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-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°	6236.5	6236.5	6236.5	6236.5	6236.5	6236.5	6236.5	6236.5	6236.5	6236.5	6236.5
2.5°	7126.4	7068.9	7032.4	7000.4	6958.5	6868.8	6748.3	6672.0	6633.4	6501.8	6345.8
5°	7825.1	7774.3	7736.7	7693.5	7618.3	7478.0	7283.4	7128.6	7052.4	6789.2	6477.5
7.5°	7661.6	7682.6	7747.7	7861.6	7959.0	7940.1	7766.6	7569.7	7469.1	7103.2	6630.0
10°	6675.3	6711.9	6824.7	7091.0	7522.2	7964.5	8099.3	7963.4	7861.6	7413.9	6787.1
12.5°	6477.5	6476.4	6485.3	6556.0	6812.4	7434.9	8110.3	8247.5	8186.7	7710.2	6947.3
15°	6558.2	6560.4	6553.8	6583.6	6663.2	6909.8	7772.0	8356.9	8400.1	8008.7	7113.1
17.5°	6770.4	6765.0	6739.4	6739.4	6768.2	6864.4	7374.0	8255.2	8454.2	8272.9	7259.2
20°	7126.4	7101.0	7033.5	6971.7	6940.8	6992.6	7210.4	8020.8	8360.3	8504.0	7379.5
22.5°	7557.6	7537.7	7428.3	7295.6	7188.3	7187.2	7294.4	7816.3	8197.8	8721.7	7481.4
25°	8114.7	8082.7	7920.3	7707.9	7520.0	7448.1	7478.0	7806.4	8109.3	8958.3	7572.0
27.5°	8769.3	8710.8	8518.4	8212.0	7935.6	7790.9	7747.7	7986.6	8189.9	9251.4	7698.0
30°	9563.0	9495.7	9249.0	8850.0	8459.8	8222.0	8130.3	8306.1	8457.5	9608.5	7900.4
32.5°	10466.3	10369.0	10083.8	9643.8	9130.8	8768.1	8619.0	8728.4	8848.9	10038.5	8153.5
35°	11714.4	11598.5	11186.1	10579.1	9999.8	9501.2	9262.3	9342.0	9459.2	10679.7	8519.4
37.5°	12565.9	12513.7	12239.6	11669.2	11039.0	10465.3	10096.1	10142.5	10208.7	11481.2	8988.3
40°	12558.0	12579.1	12584.5	12590.1	12161.2	11611.8	11214.8	11166.1	11152.8	12361.2	9521.0
42.5°	11929.0	12015.2	12293.8	12858.8	13119.7	12867.6	12503.9	12363.5	12293.8	13398.3	10086.0
45°	10966.0	11012.5	11534.2	12637.6	13610.5	14111.4	13836.1	13393.9	13267.7	14351.2	10554.7
47.5°	10469.7	10520.5	10848.8	12051.8	13605.0	15116.3	15275.5	14433.1	14207.6	15180.5	10959.4
50°	9287.8	9393.9	9807.4	11032.4	13108.5	15578.4	16780.2	15671.3	15204.7	15987.5	11365.1
52.5°	7117.6	7281.2	7744.5	9356.3	11849.5	15349.6	17984.1	17172.7	16513.7	16823.3	11713.4
55°	4489.6	4611.3	5000.4	6607.9	9479.0	14158.8	18440.8	18796.8	18210.8	17614.9	12015.2
57.5°	2441.1	2495.2	2641.1	3648.3	6165.6	11526.5	17775.2	19721.0	19477.7	18287.1	12243.0
58°	2184.6	2221.1	2311.7	3161.9	5468.2	10806.8	17479.9	19724.3	19602.6	18385.4	12260.6
60°	1620.7	1601.9	1521.3	1804.2	3043.5	7465.9	15695.6	18935.0	19292.0	18506.0	12174.4
62.5°	1424.0	1378.5	1213.9	1195.1	1480.3	3439.4	12009.7	16219.6	17063.1	17818.3	11650.4
65°	1337.8	1289.1	1076.8	1008.3	1067.9	1455.0	7074.5	12164.5	13222.5	15733.3	10310.4
67.5°	1273.5	1210.6	989.5	895.5	899.9	961.8	2835.8	7661.6	8852.2	11945.7	8019.7
70°	1211.8	1143.2	915.5	807.0	781.6	760.7	1127.6	3835.1	4915.3	7545.5	5113.2
72.5°	1145.3	1078.0	850.2	737.4	687.7	618.0	736.3	1568.8	2191.2	3569.9	2319.5
75°	1049.2	988.3	784.9	675.4	604.7	511.9	556.1	819.3	982.8	1421.7	1117.8
77.5°	930.9	881.1	711.9	624.6	536.2	415.6	427.9	568.3	630.3	813.7	664.4
80°	668.9	686.6	633.5	561.6	477.5	337.3	328.3	414.6	447.7	523.0	432.3
82.5°	469.9	479.9	524.0	458.9	394.6	265.3	242.2	291.9	311.8	343.8	233.3
85°	323.8	312.9	359.3	319.4	285.2	176.8	165.8	197.8	210.1	213.3	120.6
87.5°	194.6	194.6	207.9	171.3	153.7	91.7	89.6	112.7	120.6	115.0	66.4
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°	6236.5	6236.5	6236.5	6236.5	6236.5	6236.5	6236.5	6236.5	6236.5	6236.5	6236.5
2.5°	6253.0	6174.5	6007.7	5873.8	5704.6	5528.9	5430.6	5325.5	5253.6	5201.6	5284.5
5°	6300.6	6140.3	5795.3	5468.2	5106.5	4730.7	4445.4	4180.2	3995.5	3880.5	3988.8
7.5°	6375.8	6129.2	5579.7	5020.4	4371.4	3745.7	3186.2	2835.8	2631.2	2530.6	2593.6
10°	6462.0	6111.4	5326.6	4413.5	3484.7	2696.4	2278.6	2137.1	2090.6	2071.9	2080.7
12.5°	6533.8	6073.9	5016.0	3679.3	2616.9	2129.3	2008.8	2005.5	2015.4	2017.7	2020.9
15°	6584.7	6018.6	4554.9	2914.2	2092.8	1940.2	1933.6	1953.5	1972.3	1980.0	1984.4
17.5°	6619.0	5904.7	4034.2	2304.1	1875.0	1848.5	1864.0	1889.3	1909.3	1914.8	1919.3
20°	6615.7	5737.8	3414.0	1921.5	1756.7	1756.7	1783.2	1803.2	1804.2	1797.7	1800.9
22.5°	6581.4	5508.9	2812.6	1718.1	1651.8	1670.5	1697.1	1678.3	1600.9	1549.9	1553.3
25°	6523.9	5236.0	2297.3	1588.7	1554.3	1587.6	1579.8	1438.4	1327.8	1278.0	1278.0
27.5°	6473.0	4913.1	1901.5	1475.9	1457.1	1498.1	1360.9	1232.7	1186.2	1163.0	1155.3
30°	6436.5	4564.8	1637.3	1367.6	1365.3	1335.5	1180.7	1145.3	1137.7	1118.7	1112.2
32.5°	6445.3	4212.2	1468.2	1272.4	1280.3	1143.2	1094.6	1102.2	1095.7	1075.7	1066.8
35°	6518.5	3877.2	1357.6	1186.2	1163.0	1032.6	1043.7	1058.1	1055.8	1028.2	1019.3
37.5°	6648.9	3560.0	1284.7	1114.3	1014.9	977.4	995.1	1017.2	1011.6	992.7	986.2
40°	6785.9	3261.3	1225.0	1058.1	927.6	939.7	955.2	967.4	972.9	978.4	974.0
42.5°	6919.7	2949.7	1151.9	1000.5	891.1	904.4	911.1	923.2	953.0	974.0	972.9
45°	6999.4	2656.6	1076.8	918.7	862.4	870.1	865.6	890.0	926.4	960.7	961.8
47.5°	7087.7	2428.8	1017.2	843.6	834.6	840.3	827.0	851.2	884.4	926.4	930.9
50°	7195.0	2293.0	969.6	783.9	797.1	797.1	793.8	815.9	862.4	911.1	919.9
52.5°	7316.5	2266.5	929.7	740.7	759.4	758.3	761.8	794.9	845.8	893.3	901.0
55°	7464.7	2338.3	886.6	708.7	723.0	727.4	738.4	776.0	819.3	873.4	876.7
57.5°	7637.2	2484.3	852.4	683.3	689.9	704.2	722.0	756.3	802.6	862.4	865.6
58°	7666.0	2515.2	846.8	681.0	683.3	699.8	719.7	752.9	799.3	864.6	867.9
60°	7667.0	2618.0	834.6	671.0	657.7	685.4	707.5	740.7	793.8	872.3	880.0
62.5°	7395.0	2616.9	825.8	656.8	631.2	665.6	690.9	729.7	788.3	891.1	906.6
65°	6511.8	2378.1	783.9	634.7	610.3	647.9	676.7	722.0	803.8	972.9	982.8
67.5°	5093.3	1949.1	705.3	603.7	582.6	630.3	667.8	720.8	820.3	991.6	998.3
70°	3367.6	1458.2	619.1	568.3	553.9	609.2	672.2	758.3	801.6	951.8	934.1
72.5°	1747.9	1023.8	549.5	524.0	520.7	590.4	736.3	753.9	782.8	895.5	873.4
75°	917.6	710.9	488.7	475.5	481.0	586.0	869.0	734.0	758.3	856.9	898.8
77.5°	561.6	573.7	436.7	431.1	442.2	572.7	867.9	708.7	723.0	788.3	834.6
80°	375.9	465.4	397.0	397.9	405.8	524.0	779.4	668.9	679.8	745.1	792.7
82.5°	237.7	275.3	360.4	379.3	369.3	432.3	662.2	609.2	624.6	852.4	901.0
85°	120.6	172.5	312.9	364.8	332.8	302.9	537.2	534.0	541.7	614.7	642.3
87.5°	55.2	95.1	244.2	318.4	250.9	189.1	390.3	395.9	426.8	436.7	436.7
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)