

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: P317376

Luminaire Tested: **GAN-SA2D-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13832 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
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: 24 FT



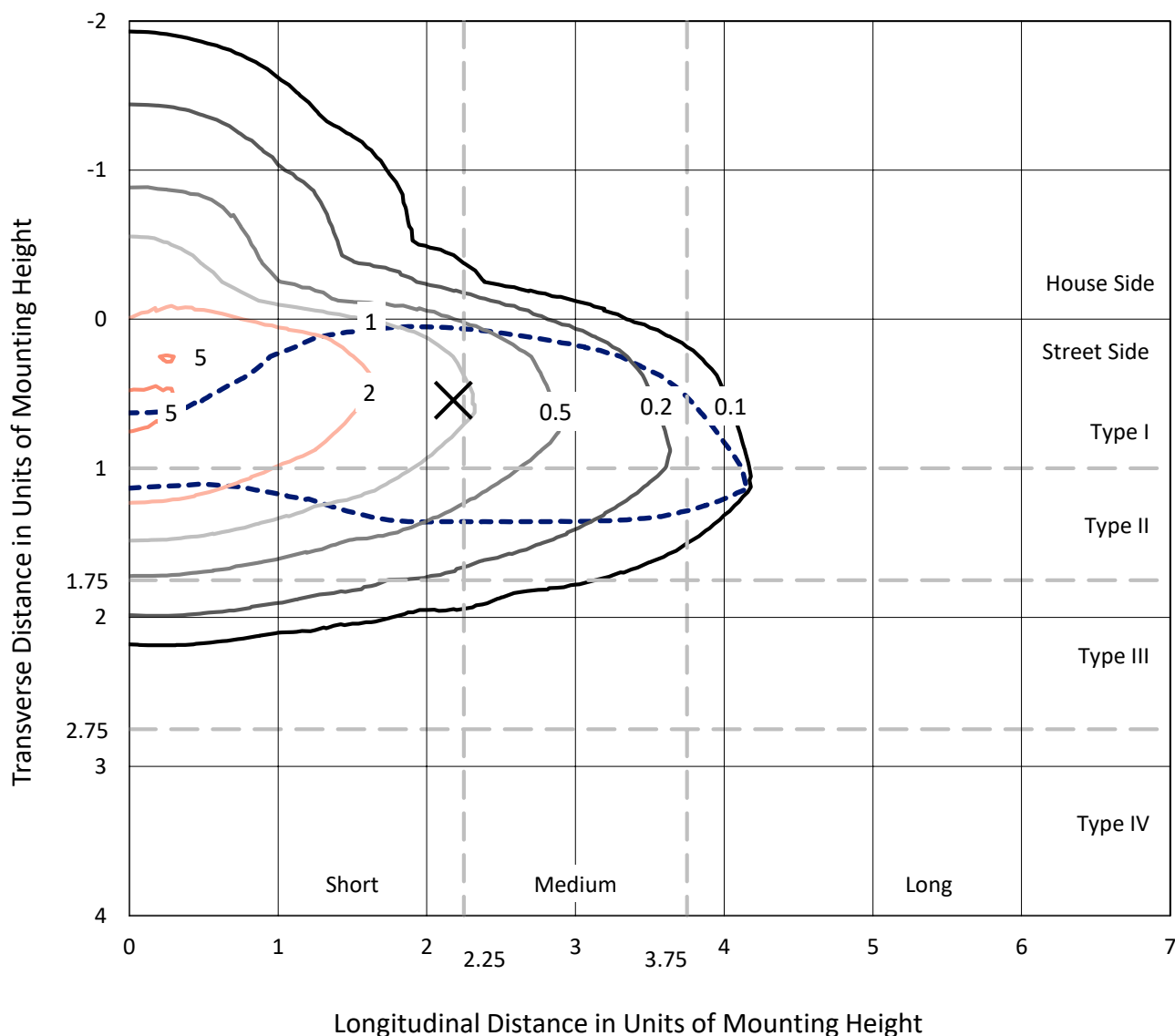
REPORT NUMBER: P317376

CATALOG NUMBER: GAN-SA2D-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

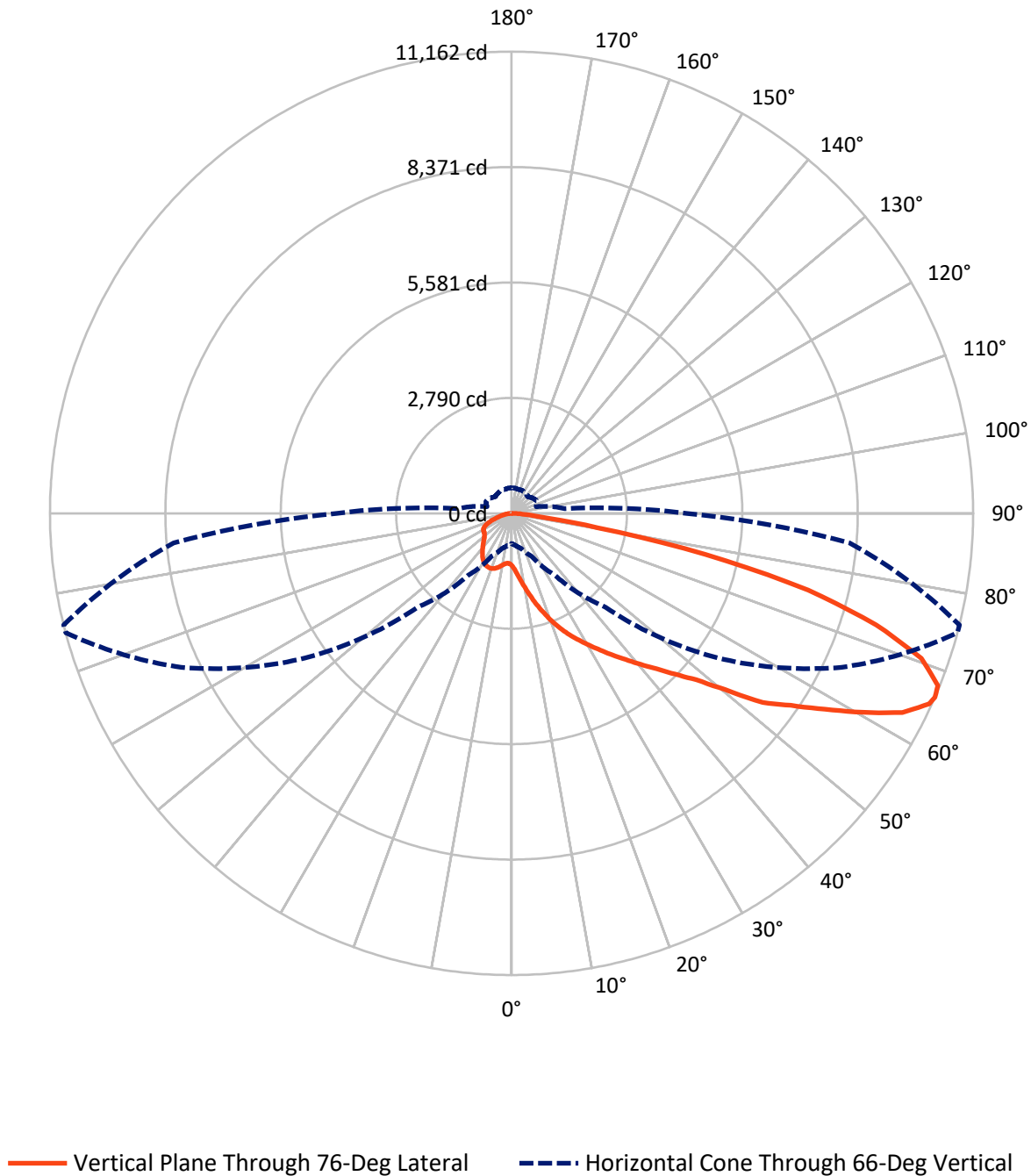


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc

Type II - Short - N/A

REPORT NUMBER: P317376
CATALOG NUMBER: GAN-SA2D-727-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P317376

CATALOG NUMBER: GAN-SA2D-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2327.4	0.0	2327.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	11504.6	0.0	11504.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	13832.0	0.0	13832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	1.1
10°-20°	603.2	4.4
20°-30°	1172.2	8.5
30°-40°	1913.3	13.8
40°-50°	2614.0	18.9
50°-60°	3044.7	22.0
60°-70°	2729.7	19.7
70°-80°	1379.5	10.0
80°-90°	222.8	1.6
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°	13832.0	100.0
0°-180°	13832.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317376

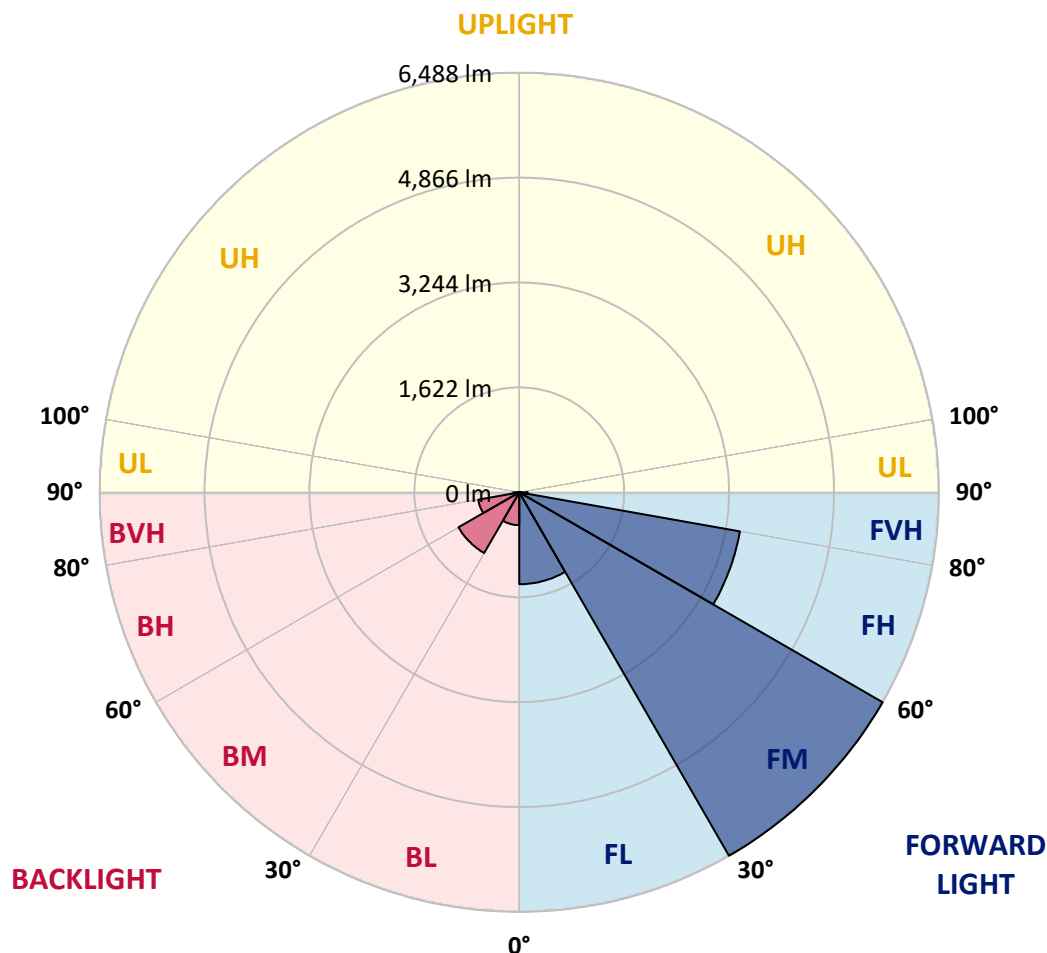
CATALOG NUMBER: GAN-SA2D-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1420.5	10.3			
FM	(30°-60°)	6488.2	46.9			
FH	(60°-80°)	3464.3	25.0			G2/5000
FVH	(80°-90°)	131.6	1.0			G2/225
BL	(0°-30°)	507.6	3.7	B2/1000		
BM	(30°-60°)	1083.8	7.8	B2/2500		
BH	(60°-80°)	644.8	4.7	B2/1000		G2/1000
BVH	(80°-90°)	91.2	0.7			G1/100
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



REPORT NUMBER: P317376

CATALOG NUMBER: GAN-SA2D-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2
2.5°	1676.9	1651.5	1649.2	1612.1	1603.6	1532.7	1480.6	1426.1	1364.1	1351.9	1303.1
5°	2154.0	2151.6	2119.2	2058.6	2011.2	1890.1	1770.3	1643.5	1504.5	1482.0	1372.1
7.5°	2583.2	2579.4	2554.5	2489.3	2420.7	2271.8	2100.9	1906.5	1681.1	1647.8	1465.6
10°	2909.1	2907.6	2899.2	2851.3	2793.1	2650.3	2461.5	2196.2	1886.3	1840.8	1582.5
12.5°	3160.8	3163.6	3169.2	3152.3	3124.6	3003.0	2809.5	2503.3	2105.1	2060.1	1712.6
15°	3331.2	3339.7	3368.8	3392.7	3407.3	3332.6	3145.3	2817.5	2350.3	2296.3	1856.7
17.5°	3417.1	3426.5	3476.8	3549.1	3615.8	3608.3	3459.4	3117.1	2585.5	2533.4	2011.7
20°	3491.3	3498.4	3554.7	3641.6	3759.5	3811.6	3728.0	3405.4	2843.3	2781.3	2176.0
22.5°	3706.4	3715.3	3732.2	3781.5	3885.8	3981.6	3941.2	3678.2	3079.5	3021.8	2331.9
25°	4121.5	4132.3	4095.7	4053.9	4073.6	4140.3	4147.8	3927.1	3319.0	3253.7	2499.6
27.5°	4621.6	4637.1	4574.7	4467.1	4373.2	4347.4	4338.5	4130.9	3547.7	3472.1	2665.3
30°	5111.4	5138.2	5056.9	4917.5	4745.1	4624.0	4534.3	4330.5	3773.1	3700.8	2821.7
32.5°	5589.9	5579.1	5461.2	5325.1	5123.1	4971.5	4754.5	4544.6	4026.7	3943.5	2977.1
35°	5917.7	5921.4	5812.0	5650.5	5457.9	5341.5	5049.4	4775.6	4285.4	4208.9	3153.7
37.5°	6196.6	6179.2	6055.3	5904.5	5738.8	5689.0	5394.5	5030.2	4565.7	4482.2	3341.5
40°	6289.6	6269.4	6188.1	6079.7	5946.8	5942.6	5775.4	5318.5	4882.7	4800.1	3553.3
42.5°	6233.2	6207.4	6174.1	6144.5	6103.6	6122.4	6133.2	5656.6	5231.1	5138.6	3798.4
45°	6025.2	5986.2	6009.7	6074.0	6162.8	6268.9	6456.3	6030.8	5621.4	5543.9	4086.3
47.5°	5705.4	5670.2	5743.4	5881.0	6122.4	6391.0	6762.0	6444.1	6087.2	6010.2	4496.2
50°	5255.6	5265.9	5370.6	5620.9	5985.8	6447.4	7138.6	6991.1	6764.3	6692.5	5055.5
52.5°	4517.4	4519.2	4814.1	5225.0	5743.4	6418.2	7347.5	7690.3	7688.9	7602.1	5588.0
55°	3831.8	3873.6	4107.0	4653.1	5350.9	6301.8	7493.6	8030.3	8296.1	8194.2	6084.4
57.5°	3162.2	3186.6	3407.8	3956.2	4790.7	5991.4	7643.4	8438.4	8995.8	8931.4	6701.4
60°	2400.5	2438.1	2666.8	3173.4	4074.1	5440.6	7657.5	8864.3	9832.1	9767.3	7390.3
62.5°	1558.1	1622.9	1837.0	2311.7	3207.2	4648.4	7330.6	9142.7	10624.7	10601.7	8001.7
65°	895.5	944.3	1093.2	1459.5	2212.7	3653.8	6553.5	9035.7	11112.6	11099.5	8230.4
66°	731.6	762.1	876.2	1140.6	1825.7	3208.6	6101.7	8809.8	11161.0	11161.5	8204.1
67.5°	585.1	598.7	649.9	816.6	1347.2	2543.3	5294.5	8311.6	11100.9	11117.3	8034.5
70°	484.1	491.2	507.1	547.5	735.4	1533.7	3758.1	7017.0	10497.5	10510.2	7372.9
72.5°	434.4	438.6	444.7	450.3	518.9	857.0	2295.3	5613.4	9203.8	9220.2	6364.7
75°	393.5	395.9	394.9	395.4	435.3	546.1	1186.2	4191.0	7441.9	7409.1	4875.7
77.5°	345.6	348.0	343.3	344.2	385.1	419.8	590.3	2933.9	5022.2	4790.2	2747.1
80°	292.1	294.0	292.1	295.4	335.3	317.0	343.3	1650.6	2220.6	2100.4	976.7
82.5°	220.7	228.7	234.3	247.5	276.1	225.4	229.6	642.9	676.2	643.8	299.6
85°	96.7	117.9	176.6	189.2	207.6	135.2	150.7	262.0	275.2	266.7	108.9
87.5°	25.4	27.7	87.3	109.9	115.0	61.0	78.4	119.3	125.8	119.3	36.2
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: P317376

CATALOG NUMBER: GAN-SA2D-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2	1263.2
2.5°	1277.3	1254.3	1212.9	1176.3	1148.6	1129.8	1111.0	1101.6	1096.0	1090.4	1091.3
5°	1318.1	1271.6	1200.7	1150.5	1122.3	1104.5	1095.1	1091.3	1089.0	1083.3	1083.3
7.5°	1379.6	1313.9	1216.2	1164.6	1142.5	1128.9	1123.2	1121.4	1118.5	1112.0	1112.9
10°	1457.1	1365.1	1248.6	1198.4	1178.2	1163.2	1155.2	1152.4	1147.2	1139.7	1140.6
12.5°	1548.2	1428.5	1291.3	1238.8	1214.3	1194.1	1181.0	1173.0	1164.1	1154.2	1154.7
15°	1647.8	1497.5	1337.4	1274.9	1241.6	1213.4	1192.3	1178.6	1164.6	1152.4	1151.9
17.5°	1748.7	1564.2	1372.6	1294.6	1249.6	1212.5	1183.8	1162.7	1145.3	1130.3	1128.9
20°	1857.7	1624.3	1392.3	1292.8	1234.5	1190.4	1152.4	1126.1	1106.8	1091.8	1089.4
22.5°	1968.5	1680.6	1395.6	1273.5	1201.2	1147.2	1107.3	1078.2	1058.4	1042.9	1037.3
25°	2069.9	1724.3	1382.0	1236.4	1154.7	1096.5	1057.5	1027.9	1011.9	993.6	988.0
27.5°	2162.4	1754.8	1354.7	1189.0	1102.6	1045.3	1008.7	983.3	965.9	951.8	947.1
30°	2245.5	1771.3	1310.1	1132.6	1049.0	996.9	965.9	948.6	933.5	915.7	912.4
32.5°	2324.4	1771.3	1252.8	1071.1	996.0	954.2	935.9	925.1	908.2	890.8	886.1
35°	2403.3	1760.5	1185.2	1006.8	947.1	923.7	922.7	910.0	884.2	860.7	854.6
37.5°	2486.4	1738.4	1109.2	946.7	907.2	910.0	918.0	889.9	853.2	819.9	811.0
40°	2580.3	1707.9	1030.3	894.6	873.9	903.9	905.4	860.7	789.4	758.8	750.9
42.5°	2690.7	1677.3	957.0	848.5	847.6	885.6	881.4	797.8	755.1	739.6	735.4
45°	2835.8	1660.0	887.5	804.9	826.9	856.0	840.6	763.1	745.2	736.3	732.5
47.5°	3064.5	1668.9	823.6	770.1	806.3	826.5	764.5	749.0	736.3	725.5	721.7
50°	3350.9	1663.7	772.0	746.2	782.8	795.5	730.2	730.7	724.1	711.9	706.3
52.5°	3566.5	1623.3	738.7	732.5	762.1	740.5	708.6	712.8	709.5	691.7	685.6
55°	3774.5	1588.6	721.7	727.4	747.1	672.0	683.2	693.6	690.3	672.9	670.1
57.5°	4033.2	1582.0	711.4	728.8	734.4	637.7	658.8	672.4	670.1	662.6	661.2
60°	4350.2	1583.9	702.0	731.1	720.3	612.3	635.8	653.2	654.6	653.2	652.2
62.5°	4524.4	1532.7	678.5	724.6	695.4	590.3	611.9	637.2	637.7	640.5	640.0
65°	4376.5	1379.6	634.9	701.6	653.7	571.9	591.2	618.9	611.9	624.5	624.5
66°	4232.8	1291.3	613.3	686.5	635.8	564.9	584.6	609.5	600.6	618.0	618.0
67.5°	3939.3	1142.5	574.3	654.6	610.5	555.0	577.1	594.0	581.8	607.6	605.8
70°	3403.1	883.8	495.9	582.3	568.7	540.5	566.8	563.0	545.2	584.6	577.1
72.5°	2869.1	671.5	398.2	487.4	505.3	522.2	552.2	523.6	501.0	528.7	512.3
75°	2226.3	504.8	314.6	379.0	426.8	493.5	534.9	478.0	445.6	442.8	433.9
77.5°	1203.5	346.6	249.3	289.3	339.0	457.8	523.1	429.2	380.4	369.1	362.0
80°	476.6	225.4	181.3	219.3	237.1	406.2	494.9	372.4	313.7	302.4	291.6
82.5°	196.8	133.4	116.9	147.0	154.5	347.5	444.2	305.2	242.3	335.3	355.9
85°	84.5	73.3	69.5	76.1	87.3	243.7	353.6	232.9	261.6	233.4	185.5
87.5°	25.4	31.0	29.6	29.1	31.9	58.2	188.3	129.6	192.1	72.8	54.5
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)