

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: P317347

Luminaire Tested: **GAN-SA3A-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317347
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-SA3A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12395 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

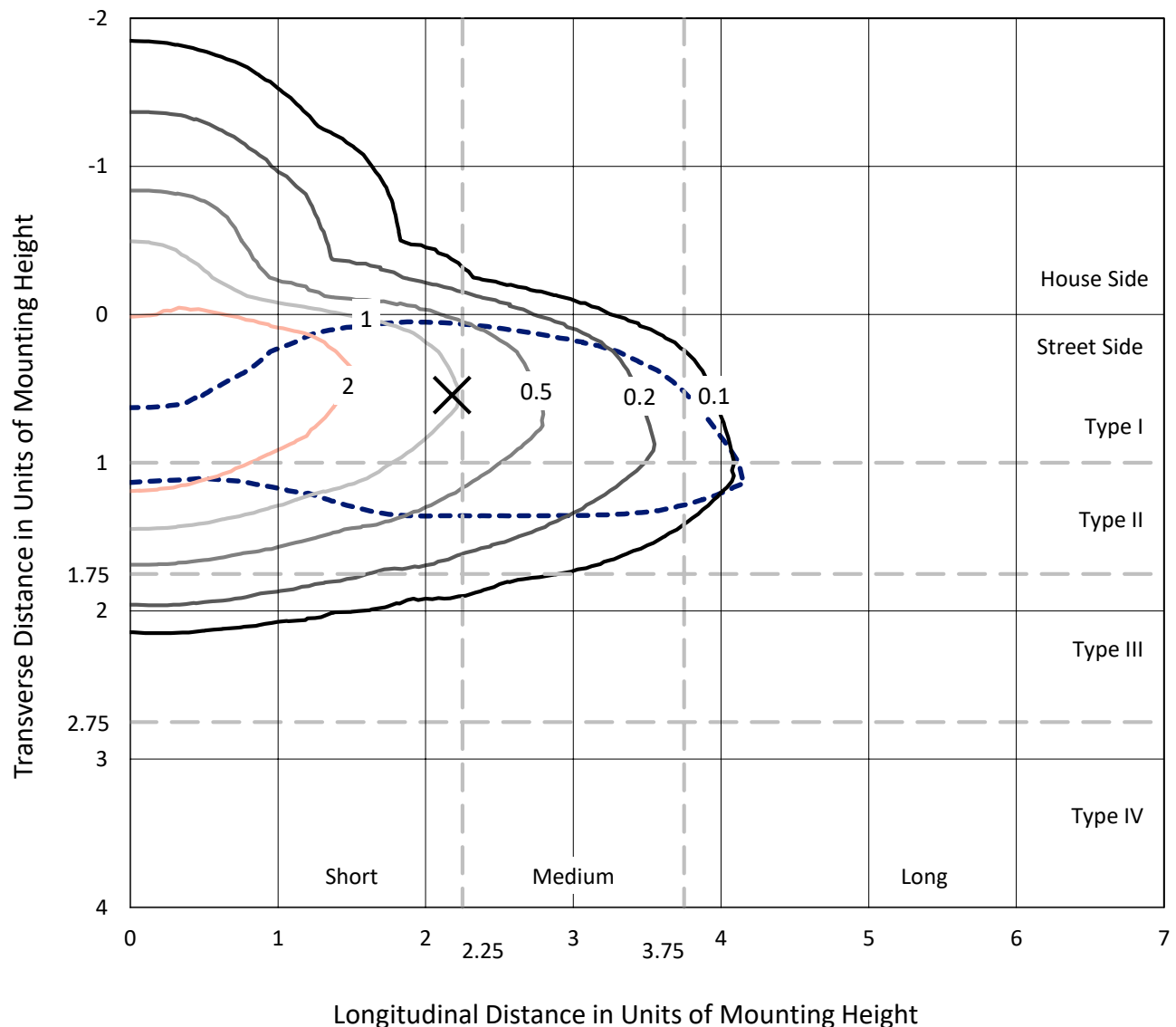
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

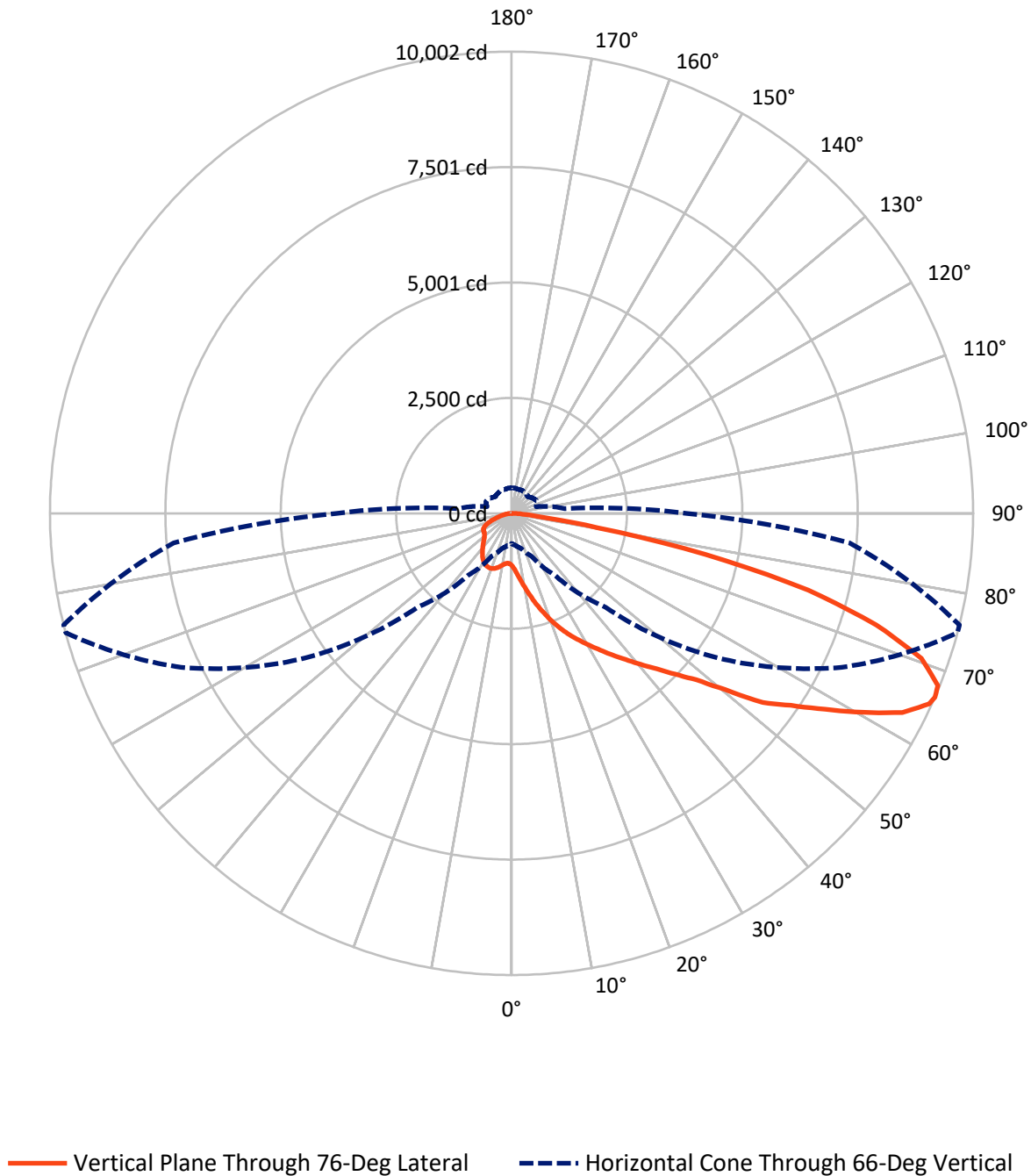
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2085.6	0.0	2085.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	10309.3	0.0	10309.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	12395.0	0.0	12395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	1.1
10°-20°	540.5	4.4
20°-30°	1050.4	8.5
30°-40°	1714.5	13.8
40°-50°	2342.4	18.9
50°-60°	2728.4	22.0
60°-70°	2446.1	19.7
70°-80°	1236.1	10.0
80°-90°	199.6	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°	12395.0	100.0
0°-180°	12395.0	100.0

Coefficient of Utilization



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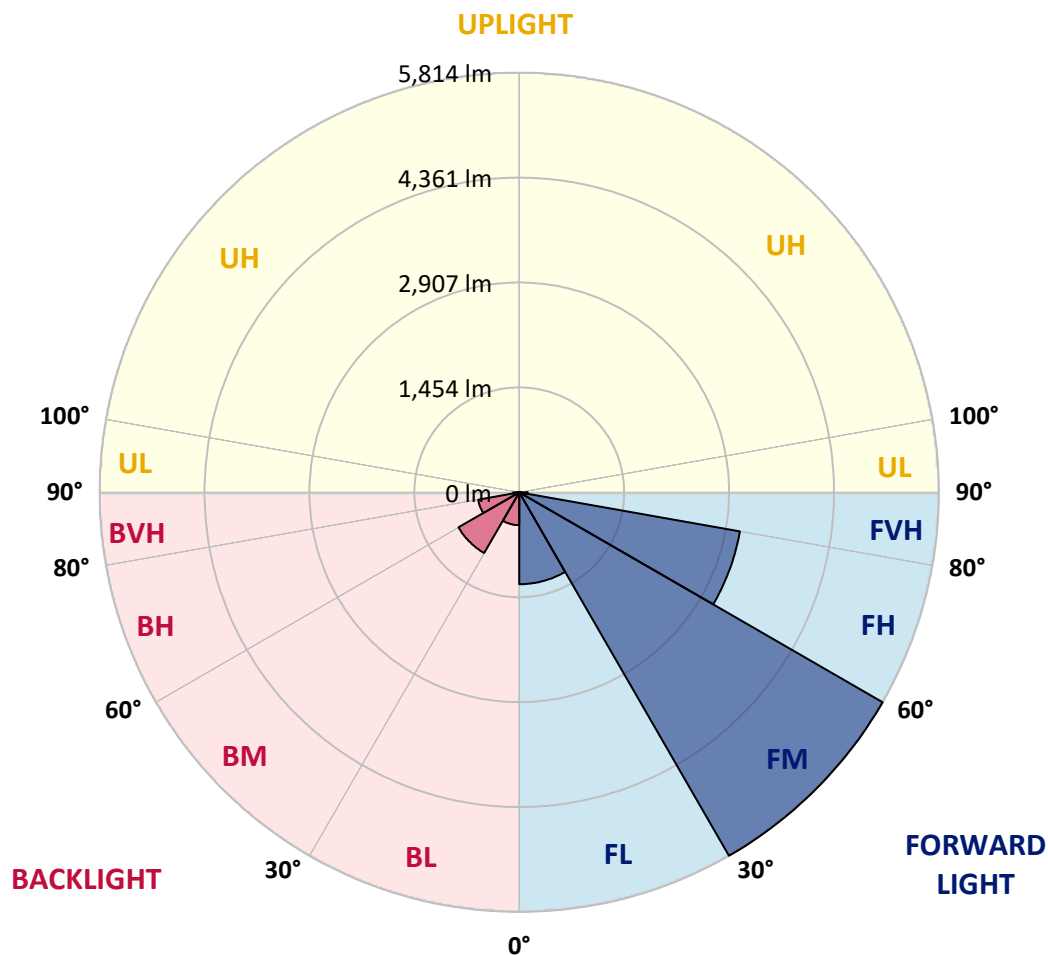
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1272.9	10.3			
FM	(30°-60°)	5814.1	46.9			
FH	(60°-80°)	3104.4	25.0			G2/5000
FVH	(80°-90°)	117.9	1.0			G2/225
BL	(0°-30°)	454.9	3.7	B1/500		
BM	(30°-60°)	971.2	7.8	B1/1000		
BH	(60°-80°)	577.8	4.7	B2/1000		G2/1000
BVH	(80°-90°)	81.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1131.9	1131.9	1131.9	1131.9	1131.9	1131.9	1131.9	1131.9	1131.9	1131.9	1131.9
2.5°	1502.7	1479.9	1477.8	1444.6	1437.0	1373.5	1326.8	1278.0	1222.4	1211.5	1167.7
5°	1930.2	1928.1	1899.1	1844.8	1802.3	1693.7	1586.4	1472.8	1348.2	1328.0	1229.6
7.5°	2314.8	2311.4	2289.1	2230.6	2169.2	2035.8	1882.6	1708.4	1506.5	1476.6	1313.3
10°	2606.8	2605.6	2598.0	2555.1	2502.9	2375.0	2205.8	1968.1	1690.3	1649.5	1418.1
12.5°	2832.4	2834.9	2840.0	2824.8	2800.0	2691.0	2517.6	2243.3	1886.4	1846.0	1534.6
15°	2985.1	2992.7	3018.8	3040.3	3053.3	2986.4	2818.5	2524.8	2106.1	2057.7	1663.8
17.5°	3062.1	3070.6	3115.6	3180.4	3240.1	3233.4	3100.0	2793.2	2316.9	2270.2	1802.7
20°	3128.6	3134.9	3185.4	3263.3	3368.9	3415.6	3340.7	3051.6	2547.9	2492.4	1950.0
22.5°	3321.3	3329.3	3344.5	3388.7	3482.1	3567.9	3531.7	3296.1	2759.6	2707.8	2089.7
25°	3693.3	3703.0	3670.2	3632.7	3650.4	3710.2	3716.9	3519.1	2974.2	2915.7	2239.9
27.5°	4141.5	4155.4	4099.4	4003.0	3918.9	3895.7	3887.7	3701.7	3179.1	3111.4	2388.4
30°	4580.4	4604.4	4531.6	4406.6	4252.2	4143.6	4063.2	3880.6	3381.1	3316.3	2528.6
32.5°	5009.2	4999.5	4893.9	4771.8	4590.9	4455.0	4260.6	4072.5	3608.3	3533.9	2667.9
35°	5302.9	5306.2	5208.2	5063.4	4890.9	4786.6	4524.8	4279.5	3840.2	3771.6	2826.1
37.5°	5552.8	5537.3	5426.2	5291.1	5142.6	5098.0	4834.1	4507.6	4091.4	4016.5	2994.4
40°	5636.2	5618.1	5545.3	5448.1	5329.0	5325.2	5175.4	4765.9	4375.4	4301.4	3184.2
42.5°	5585.7	5562.5	5532.6	5506.1	5469.5	5486.3	5496.0	5068.9	4687.7	4604.8	3403.8
45°	5399.2	5364.3	5385.4	5443.0	5522.5	5617.6	5785.5	5404.3	5037.4	4967.9	3661.8
47.5°	5112.7	5081.1	5146.8	5270.1	5486.3	5727.0	6059.5	5774.6	5454.8	5385.8	4029.1
50°	4709.6	4718.8	4812.7	5036.9	5363.9	5777.5	6397.0	6264.8	6061.6	5997.2	4530.3
52.5°	4048.1	4049.7	4314.0	4682.2	5146.8	5751.4	6584.2	6891.4	6890.1	6812.3	5007.5
55°	3433.7	3471.2	3680.3	4169.7	4795.0	5647.1	6715.1	7196.0	7434.2	7342.9	5452.3
57.5°	2833.6	2855.5	3053.7	3545.2	4293.0	5368.9	6849.3	7561.7	8061.2	8003.6	6005.2
60°	2151.1	2184.8	2389.7	2843.7	3650.8	4875.4	6861.9	7943.4	8810.6	8752.6	6622.5
62.5°	1396.2	1454.3	1646.2	2071.6	2874.0	4165.5	6569.1	8192.9	9520.9	9500.3	7170.4
65°	802.5	846.2	979.6	1307.8	1982.8	3274.2	5872.6	8097.0	9958.2	9946.4	7375.3
66°	655.6	683.0	785.2	1022.1	1636.1	2875.3	5467.8	7894.6	10001.5	10001.9	7351.7
67.5°	524.3	536.5	582.4	731.8	1207.3	2279.0	4744.5	7448.1	9947.6	9962.4	7199.8
70°	433.8	440.2	454.5	490.6	659.0	1374.3	3367.6	6288.0	9406.9	9418.3	6606.9
72.5°	389.2	393.0	398.5	403.5	465.0	768.0	2056.9	5030.2	8247.6	8262.3	5703.5
75°	352.6	354.7	353.9	354.3	390.1	489.4	1062.9	3755.6	6668.8	6639.3	4369.1
77.5°	309.7	311.8	307.6	308.4	345.1	376.2	528.9	2629.1	4500.4	4292.5	2461.7
80°	261.7	263.4	261.7	264.7	300.4	284.0	307.6	1479.1	1989.9	1882.2	875.3
82.5°	197.8	204.9	210.0	221.8	247.4	202.0	205.8	576.1	605.9	576.9	268.5
85°	86.7	105.6	158.2	169.6	186.0	121.2	135.1	234.8	246.6	239.0	97.6
87.5°	22.7	24.8	78.3	98.5	103.1	54.7	70.3	106.9	112.8	106.9	32.4
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°	1131.9	1131.9	1131.9	1131.9	1131.9	1131.9	1131.9	1131.9	1131.9	1131.9	1131.9
2.5°	1144.6	1123.9	1086.9	1054.1	1029.3	1012.4	995.6	987.2	982.1	977.1	977.9
5°	1181.2	1139.5	1076.0	1031.0	1005.7	989.7	981.3	977.9	975.8	970.8	970.8
7.5°	1236.3	1177.4	1089.9	1043.6	1023.8	1011.6	1006.5	1004.9	1002.3	996.4	997.3
10°	1305.7	1223.3	1118.9	1073.9	1055.8	1042.3	1035.2	1032.6	1028.0	1021.3	1022.1
12.5°	1387.4	1280.1	1157.2	1110.1	1088.2	1070.1	1058.3	1051.2	1043.2	1034.3	1034.7
15°	1476.6	1341.9	1198.4	1142.5	1112.6	1087.3	1068.4	1056.2	1043.6	1032.6	1032.2
17.5°	1567.0	1401.7	1230.0	1160.1	1119.7	1086.5	1060.8	1041.9	1026.3	1012.9	1011.6
20°	1664.7	1455.5	1247.7	1158.5	1106.3	1066.7	1032.6	1009.1	991.8	978.4	976.2
22.5°	1764.0	1506.0	1250.6	1141.2	1076.4	1028.0	992.2	966.1	948.5	934.6	929.5
25°	1854.9	1545.2	1238.4	1108.0	1034.7	982.6	947.6	921.1	906.8	890.4	885.4
27.5°	1937.8	1572.5	1214.0	1065.5	988.0	936.7	903.9	881.1	865.6	853.0	848.7
30°	2012.2	1587.2	1174.0	1015.0	940.1	893.4	865.6	850.0	836.5	820.6	817.6
32.5°	2082.9	1587.2	1122.7	959.8	892.5	855.1	838.6	829.0	813.8	798.3	794.0
35°	2153.6	1577.6	1062.1	902.2	848.7	827.7	826.9	815.5	792.4	771.3	765.8
37.5°	2228.1	1557.8	993.9	848.3	813.0	815.5	822.7	797.4	764.6	734.7	726.7
40°	2312.3	1530.4	923.2	801.6	783.1	810.0	811.3	771.3	707.4	680.0	672.9
42.5°	2411.2	1503.1	857.6	760.4	759.5	793.6	789.8	714.9	676.6	662.8	659.0
45°	2541.2	1487.5	795.3	721.2	741.0	767.1	753.2	683.8	667.8	659.8	656.4
47.5°	2746.1	1495.5	738.1	690.1	722.5	740.6	685.1	671.2	659.8	650.1	646.8
50°	3002.8	1490.9	691.8	668.6	701.5	712.8	654.3	654.8	648.9	637.9	632.9
52.5°	3196.0	1454.7	661.9	656.4	683.0	663.6	635.0	638.8	635.8	619.8	614.4
55°	3382.4	1423.6	646.8	651.8	669.5	602.2	612.3	621.5	618.6	603.0	600.5
57.5°	3614.2	1417.7	637.5	653.1	658.1	571.4	590.4	602.6	600.5	593.7	592.5
60°	3898.3	1419.3	629.1	655.2	645.5	548.7	569.8	585.3	586.6	585.3	584.5
62.5°	4054.4	1373.5	608.1	649.3	623.2	528.9	548.3	571.0	571.4	574.0	573.5
65°	3921.8	1236.3	568.9	628.7	585.7	512.5	529.8	554.6	548.3	559.7	559.7
66°	3793.1	1157.2	549.6	615.2	569.8	506.2	523.9	546.2	538.2	553.8	553.8
67.5°	3530.1	1023.8	514.6	586.6	547.0	497.4	517.2	532.3	521.4	544.5	542.8
70°	3049.5	791.9	444.4	521.8	509.6	484.3	507.9	504.5	488.5	523.9	517.2
72.5°	2571.1	601.7	356.8	436.8	452.8	467.9	494.9	469.2	449.0	473.8	459.1
75°	1995.0	452.4	281.9	339.6	382.5	442.3	479.3	428.4	399.3	396.8	388.8
77.5°	1078.5	310.5	223.4	259.2	303.8	410.3	468.8	384.6	340.8	330.7	324.4
80°	427.1	202.0	162.4	196.5	212.5	364.0	443.5	333.7	281.1	271.0	261.3
82.5°	176.3	119.5	104.8	131.7	138.4	311.4	398.1	273.5	217.1	300.4	319.0
85°	75.7	65.6	62.3	68.2	78.3	218.4	316.9	208.7	234.4	209.1	166.2
87.5°	22.7	27.8	26.5	26.1	28.6	52.2	168.7	116.1	172.1	65.2	48.8
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)