

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: P317356

Luminaire Tested: **GAN-SA2B-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317356
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-SA2B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10187 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

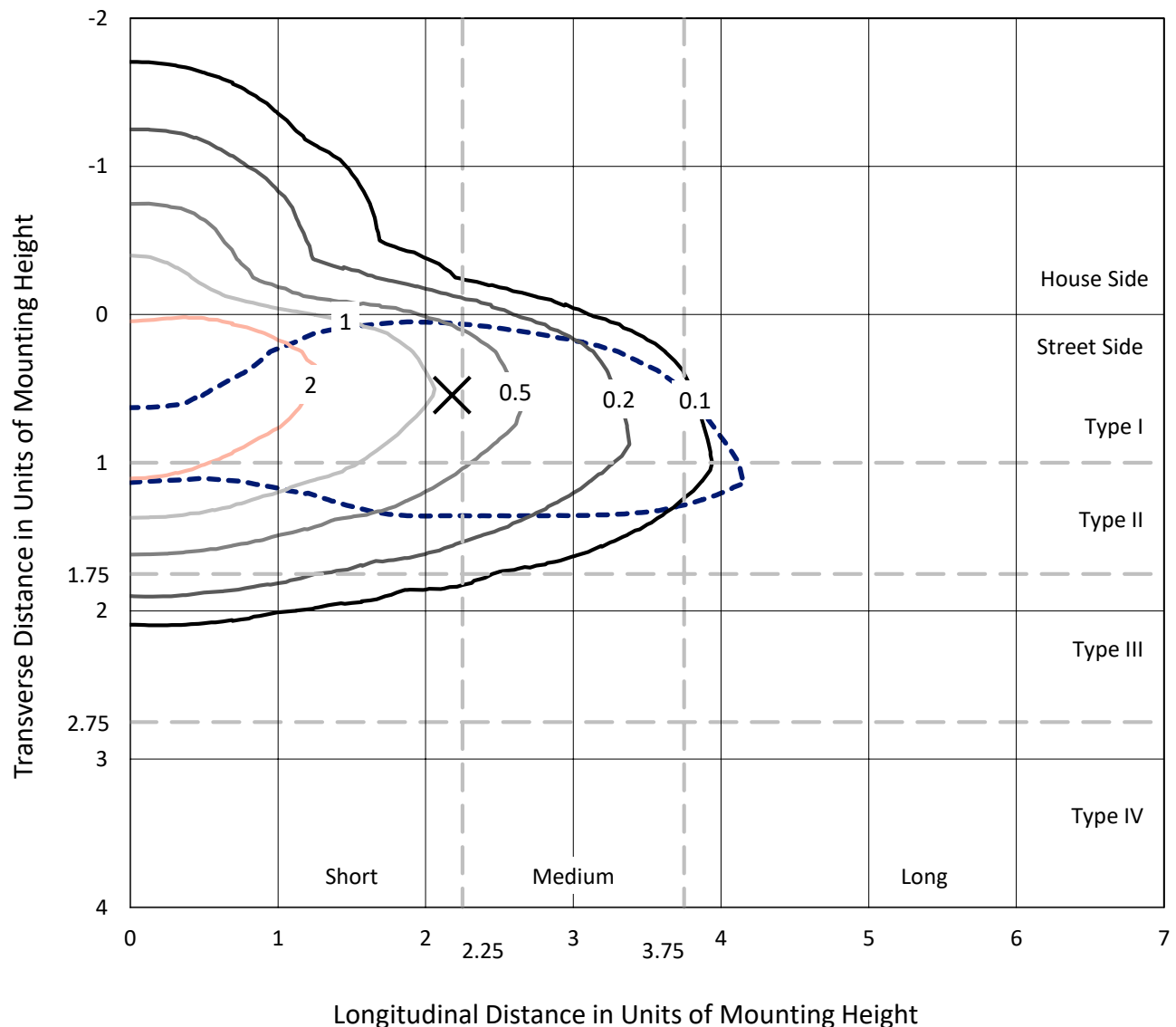
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

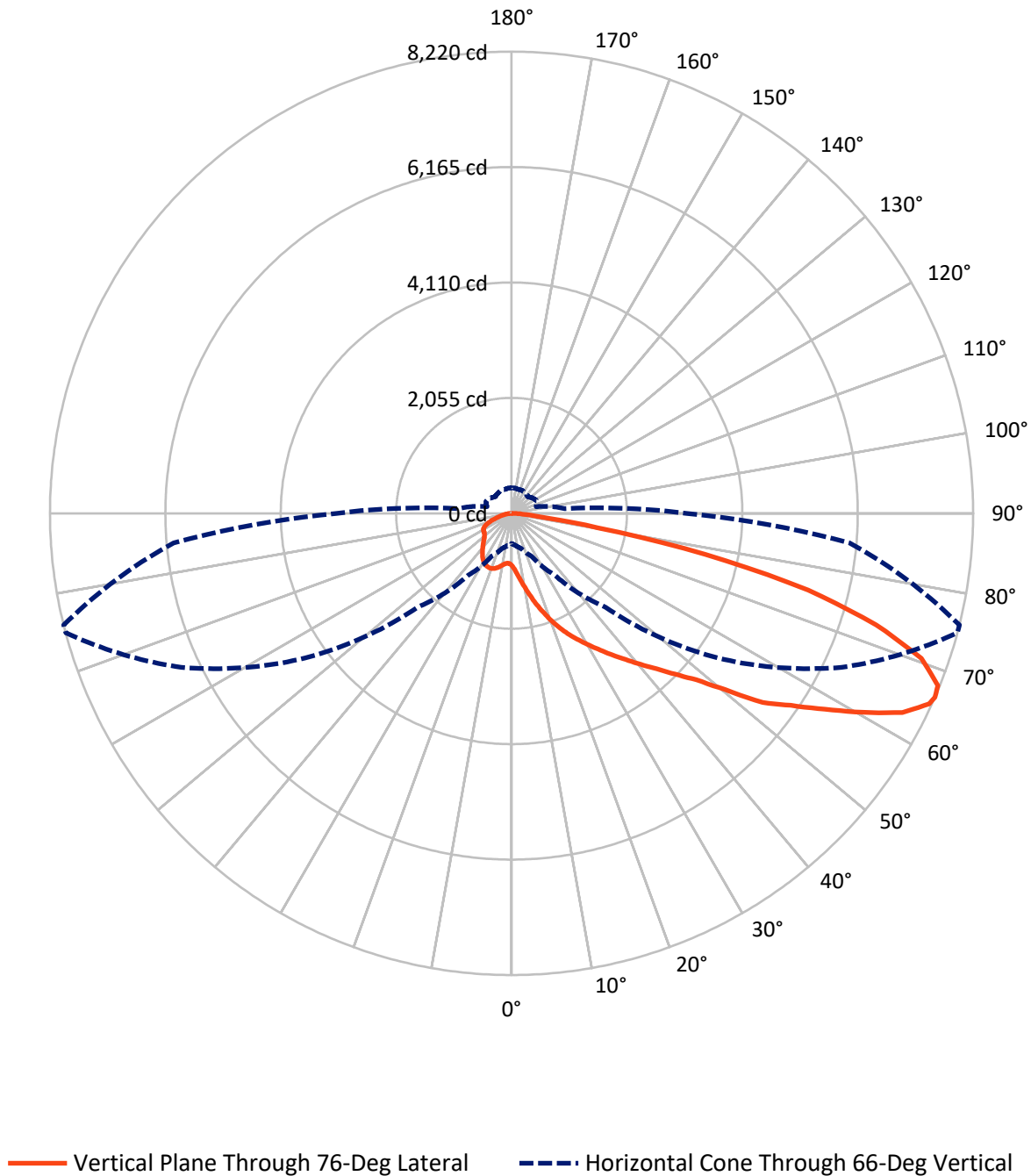
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1714.1	0.0	1714.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	8472.9	0.0	8472.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	10187.0	0.0	10187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	1.1
10°-20°	444.3	4.4
20°-30°	863.3	8.5
30°-40°	1409.1	13.8
40°-50°	1925.1	18.9
50°-60°	2242.4	22.0
60°-70°	2010.3	19.7
70°-80°	1015.9	10.0
80°-90°	164.1	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°	10187.0	100.0
0°-180°	10187.0	100.0

Coefficient of Utilization



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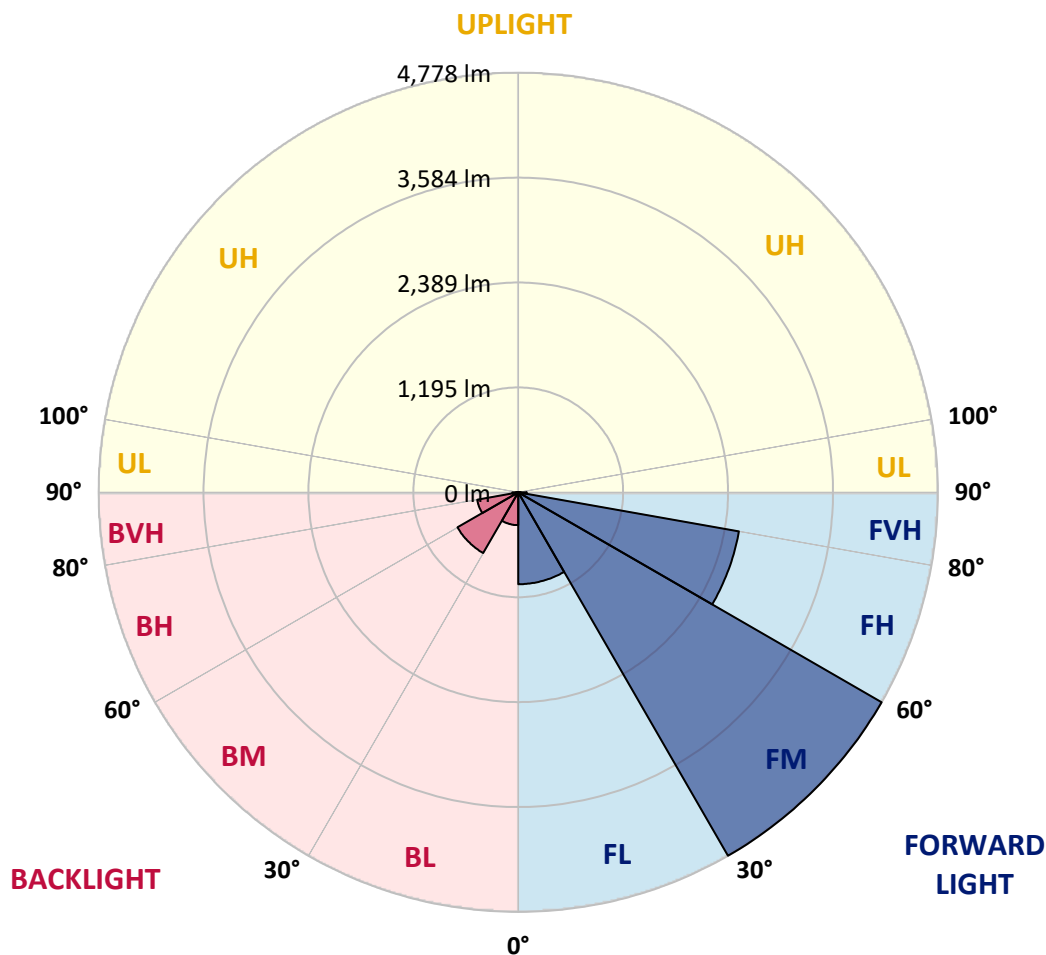
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1046.2	10.3			
FM	(30°-60°)	4778.4	46.9			
FH	(60°-80°)	2551.4	25.0			G2/5000
FVH	(80°-90°)	96.9	1.0			G1/100
BL	(0°-30°)	373.9	3.7	B1/500		
BM	(30°-60°)	798.2	7.8	B1/1000		
BH	(60°-80°)	474.9	4.7	B1/500		G1/500
BVH	(80°-90°)	67.2	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	1235.0	1216.3	1214.6	1187.3	1181.0	1128.8	1090.4	1050.3	1004.7	995.7	959.7
5°	1586.4	1584.6	1560.8	1516.2	1481.2	1392.0	1303.8	1210.4	1108.1	1091.5	1010.5
7.5°	1902.5	1899.7	1881.4	1833.3	1782.8	1673.2	1547.3	1404.1	1238.1	1213.5	1079.4
10°	2142.5	2141.4	2135.2	2099.9	2057.0	1951.9	1812.9	1617.5	1389.2	1355.7	1165.5
12.5°	2327.8	2329.9	2334.1	2321.6	2301.2	2211.6	2069.1	1843.7	1550.4	1517.2	1261.3
15°	2453.4	2459.6	2481.0	2498.7	2509.4	2454.4	2316.4	2075.0	1730.9	1691.1	1367.4
17.5°	2516.7	2523.6	2560.6	2613.8	2662.9	2657.4	2547.8	2295.7	1904.2	1865.8	1481.6
20°	2571.3	2576.5	2618.0	2682.0	2768.8	2807.2	2745.6	2508.0	2094.0	2048.4	1602.6
22.5°	2729.7	2736.3	2748.7	2785.0	2861.8	2932.4	2902.6	2708.9	2268.0	2225.5	1717.4
25°	3035.4	3043.4	3016.4	2985.6	3000.1	3049.2	3054.8	2892.2	2444.4	2396.3	1840.9
27.5°	3403.7	3415.1	3369.1	3290.0	3220.8	3201.8	3195.2	3042.3	2612.8	2557.1	1963.0
30°	3764.4	3784.2	3724.3	3621.6	3494.7	3405.5	3339.4	3189.3	2778.8	2725.5	2078.1
32.5°	4116.8	4108.9	4022.1	3921.8	3773.1	3661.4	3501.6	3347.0	2965.6	2904.3	2192.6
35°	4358.2	4361.0	4280.4	4161.5	4019.7	3933.9	3718.8	3517.2	3156.1	3099.7	2322.6
37.5°	4563.7	4550.9	4459.6	4348.6	4226.5	4189.8	3973.0	3704.6	3362.6	3301.0	2461.0
40°	4632.1	4617.3	4557.4	4477.6	4379.7	4376.6	4253.5	3917.0	3596.0	3535.2	2617.0
42.5°	4590.6	4571.6	4547.1	4525.3	4495.2	4509.0	4517.0	4166.0	3852.6	3784.5	2797.5
45°	4437.4	4408.7	4426.0	4473.4	4538.8	4616.9	4754.9	4441.6	4140.0	4083.0	3009.5
47.5°	4201.9	4176.0	4229.9	4331.3	4509.0	4706.8	4980.1	4745.9	4483.1	4426.4	3311.4
50°	3870.6	3878.2	3955.3	4139.7	4408.4	4748.3	5257.4	5148.8	4981.8	4928.9	3723.3
52.5°	3327.0	3328.3	3545.5	3848.1	4229.9	4726.9	5411.3	5663.8	5662.7	5598.8	4115.5
55°	2822.0	2852.8	3024.7	3426.9	3940.8	4641.1	5518.9	5914.2	6109.9	6034.9	4481.0
57.5°	2328.9	2346.9	2509.7	2913.7	3528.2	4412.5	5629.2	6214.7	6625.2	6577.8	4935.4
60°	1767.9	1795.6	1964.0	2337.2	3000.5	4006.9	5639.6	6528.4	7241.1	7193.4	5442.8
62.5°	1147.5	1195.2	1352.9	1702.6	2362.1	3423.4	5398.9	6733.5	7824.9	7808.0	5893.1
65°	659.5	695.5	805.1	1074.9	1629.6	2691.0	4826.5	6654.6	8184.2	8174.6	6061.5
66°	538.8	561.3	645.3	840.0	1344.6	2363.1	4493.8	6488.3	8219.9	8220.2	6042.1
67.5°	430.9	440.9	478.6	601.4	992.2	1873.1	3899.3	6121.3	8175.6	8187.7	5917.3
70°	356.6	361.7	373.5	403.2	541.6	1129.5	2767.7	5167.8	7731.2	7740.5	5430.0
72.5°	319.9	323.0	327.5	331.7	382.2	631.2	1690.5	4134.1	6778.4	6790.5	4687.5
75°	289.8	291.5	290.8	291.2	320.6	402.2	873.6	3086.6	5480.8	5456.6	3590.8
77.5°	254.5	256.3	252.8	253.5	283.6	309.2	434.7	2160.8	3698.7	3527.9	2023.1
80°	215.1	216.5	215.1	217.5	246.9	233.4	252.8	1215.6	1635.5	1546.9	719.3
82.5°	162.5	168.4	172.6	182.3	203.4	166.0	169.1	473.5	498.0	474.1	220.6
85°	71.2	86.8	130.0	139.4	152.9	99.6	111.0	193.0	202.7	196.4	80.2
87.5°	18.7	20.4	64.3	80.9	84.7	45.0	57.8	87.8	92.7	87.8	26.6
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°	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
2.5°	940.7	923.7	893.3	866.3	845.9	832.1	818.3	811.3	807.2	803.0	803.7
5°	970.8	936.5	884.3	847.3	826.6	813.4	806.5	803.7	802.0	797.8	797.8
7.5°	1016.1	967.7	895.7	857.7	841.4	831.4	827.2	825.9	823.8	818.9	819.6
10°	1073.1	1005.3	919.6	882.6	867.7	856.6	850.8	848.7	844.9	839.3	840.0
12.5°	1140.2	1052.0	951.1	912.3	894.3	879.5	869.8	863.9	857.3	850.1	850.4
15°	1213.5	1102.9	984.9	938.9	914.4	893.6	878.1	868.1	857.7	848.7	848.3
17.5°	1287.9	1152.0	1010.9	953.5	920.3	893.0	871.9	856.3	843.5	832.4	831.4
20°	1368.1	1196.3	1025.4	952.1	909.2	876.7	848.7	829.3	815.1	804.1	802.3
22.5°	1449.8	1237.8	1027.8	937.9	884.7	844.9	815.5	794.0	779.5	768.1	764.0
25°	1524.5	1269.9	1017.8	910.6	850.4	807.5	778.8	757.0	745.3	731.8	727.6
27.5°	1592.6	1292.4	997.7	875.7	812.0	769.8	742.9	724.2	711.4	701.0	697.6
30°	1653.8	1304.5	964.9	834.2	772.6	734.2	711.4	698.6	687.5	674.4	672.0
32.5°	1711.9	1304.5	922.7	788.9	733.5	702.7	689.3	681.3	668.8	656.1	652.6
35°	1770.0	1296.5	872.9	741.5	697.6	680.3	679.6	670.2	651.2	633.9	629.4
37.5°	1831.2	1280.3	816.9	697.2	668.2	670.2	676.1	655.4	628.4	603.8	597.3
40°	1900.4	1257.8	758.8	658.8	643.6	665.7	666.8	633.9	581.4	558.9	553.0
42.5°	1981.6	1235.3	704.8	624.9	624.2	652.2	649.1	587.6	556.1	544.7	541.6
45°	2088.5	1222.5	653.6	592.8	609.0	630.5	619.0	562.0	548.8	542.3	539.5
47.5°	2256.9	1229.1	606.6	567.2	593.8	608.7	563.0	551.6	542.3	534.3	531.6
50°	2467.9	1225.3	568.6	549.5	576.5	585.8	537.8	538.1	533.3	524.3	520.1
52.5°	2626.6	1195.6	544.0	539.5	561.3	545.4	521.9	525.0	522.6	509.4	504.9
55°	2779.8	1170.0	531.6	535.7	550.2	494.9	503.2	510.8	508.4	495.6	493.5
57.5°	2970.4	1165.1	523.9	536.7	540.9	469.6	485.2	495.2	493.5	488.0	486.9
60°	3203.8	1166.5	517.0	538.5	530.5	451.0	468.3	481.1	482.1	481.1	480.4
62.5°	3332.1	1128.8	499.7	533.6	512.2	434.7	450.6	469.3	469.6	471.7	471.4
65°	3223.2	1016.1	467.6	516.7	481.4	421.2	435.4	455.8	450.6	460.0	460.0
66°	3117.4	951.1	451.7	505.6	468.3	416.0	430.6	448.9	442.3	455.1	455.1
67.5°	2901.2	841.4	423.0	482.1	449.6	408.8	425.0	437.5	428.5	447.5	446.1
70°	2506.3	650.9	365.2	428.8	418.8	398.1	417.4	414.7	401.5	430.6	425.0
72.5°	2113.1	494.5	293.3	359.0	372.1	384.6	406.7	385.6	369.0	389.4	377.3
75°	1639.6	371.8	231.7	279.1	314.4	363.5	393.9	352.1	328.2	326.1	319.6
77.5°	886.4	255.2	183.6	213.0	249.7	337.2	385.3	316.1	280.1	271.8	266.6
80°	351.0	166.0	133.5	161.5	174.6	299.1	364.5	274.2	231.0	222.7	214.8
82.5°	144.9	98.2	86.1	108.2	113.8	255.9	327.2	224.8	178.5	246.9	262.1
85°	62.3	54.0	51.2	56.0	64.3	179.5	260.4	171.5	192.6	171.9	136.6
87.5°	18.7	22.8	21.8	21.4	23.5	42.9	138.7	95.5	141.4	53.6	40.1
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)