

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: P318416

Luminaire Tested: **GAN-SA2D-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15879 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

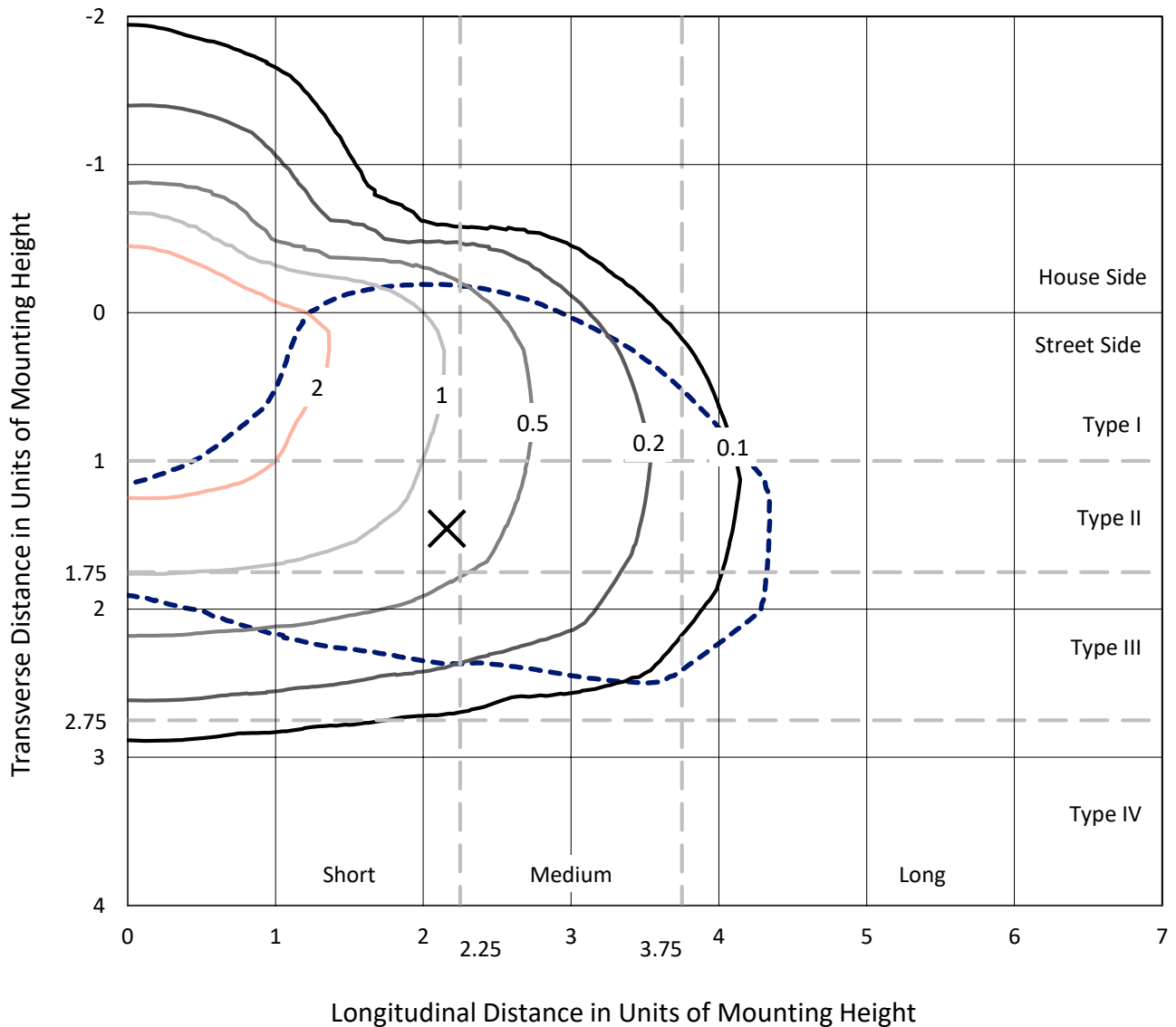
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

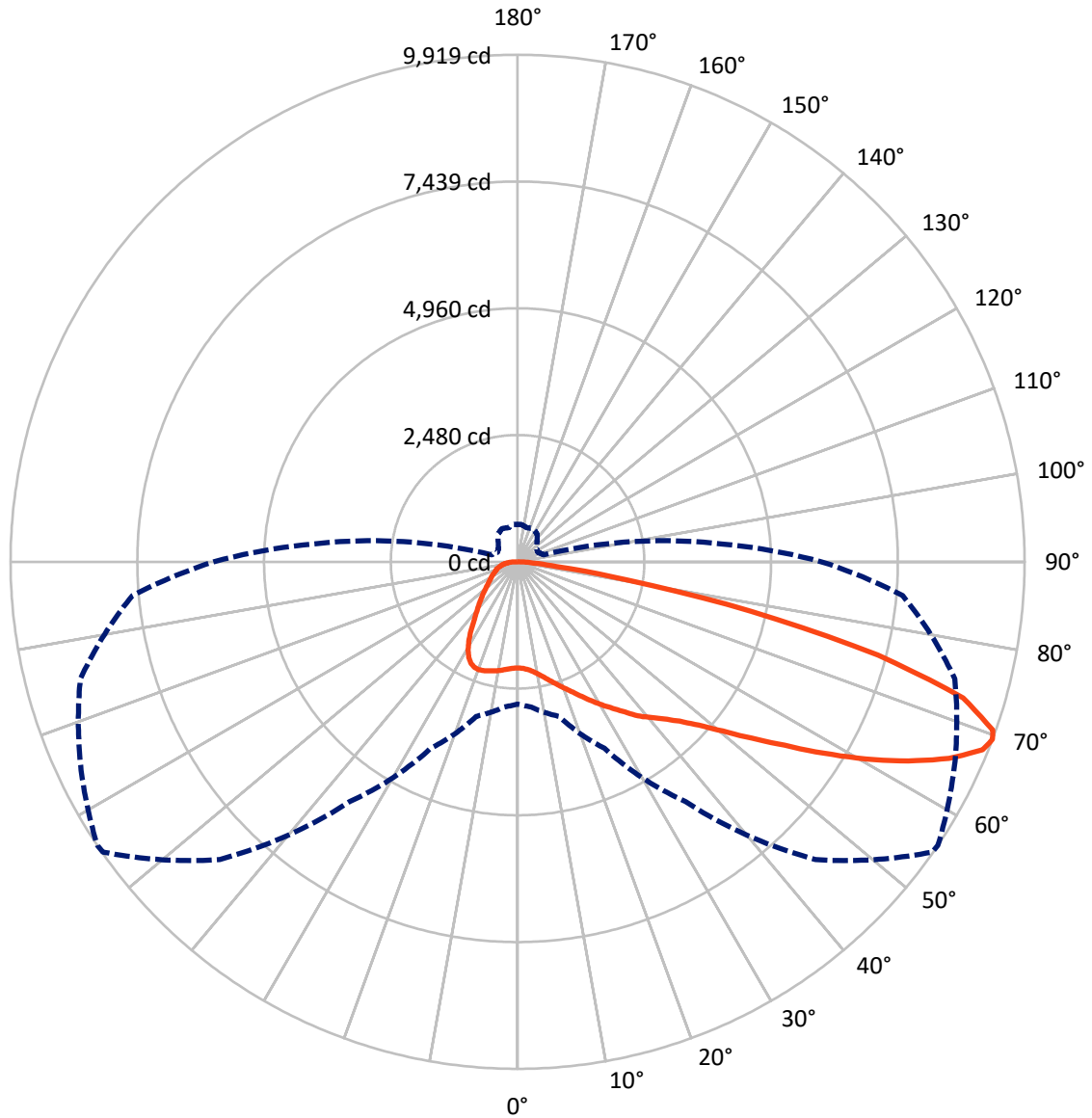
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3536.2	0.0	3536.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	12342.8	0.0	12342.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	15879.0	0.0	15879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	1.3
10°-20°	655.6	4.1
20°-30°	1144.5	7.2
30°-40°	1644.0	10.4
40°-50°	2275.2	14.3
50°-60°	3333.5	21.0
60°-70°	4064.2	25.6
70°-80°	2246.9	14.2
80°-90°	311.2	2.0
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°	15879.0	100.0
0°-180°	15879.0	100.0

Coefficient of Utilization



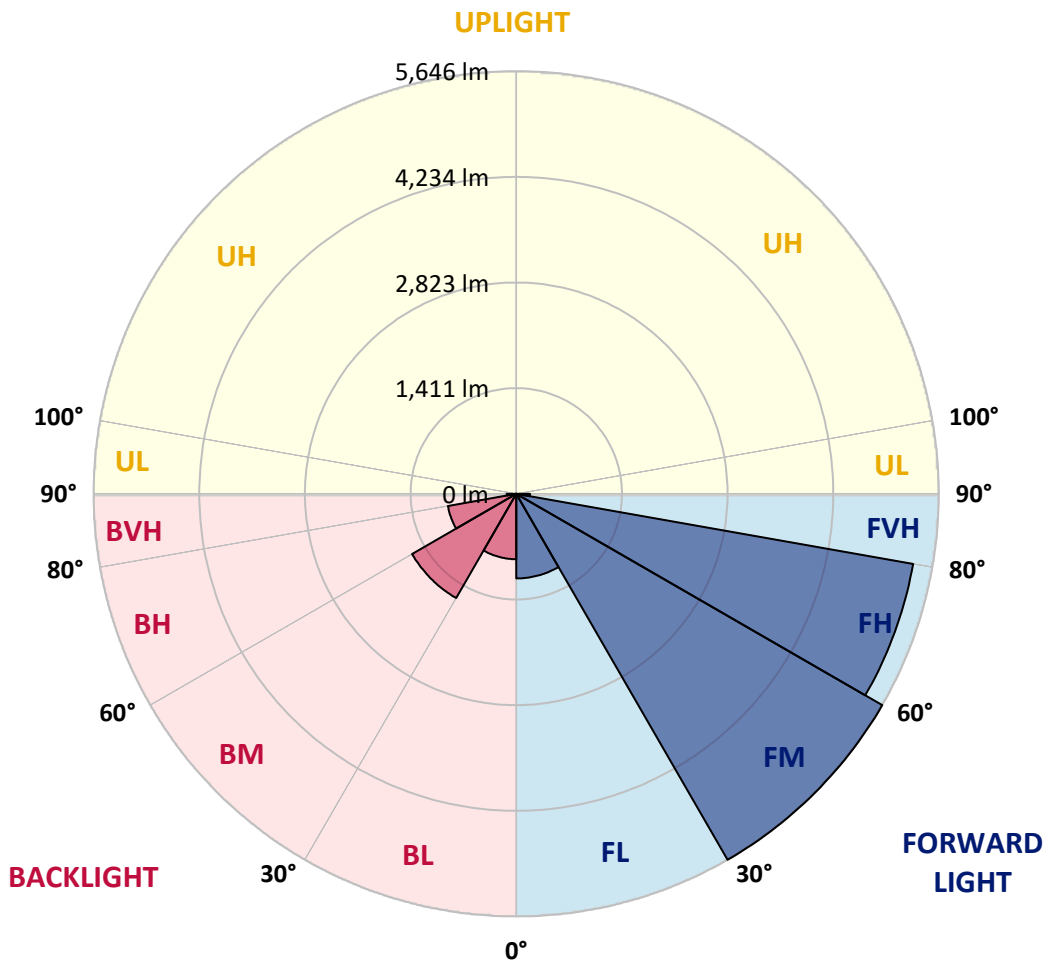
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.1	7.1			
FM (30°-60°)	5645.6	35.6			
FH (60°-80°)	5383.8	33.9			G3/7500
FVH (80°-90°)	183.3	1.2			G2/225
BL (0°-30°)	873.9	5.5	B2/1000		
BM (30°-60°)	1607.1	10.1	B2/2500		
BH (60°-80°)	927.3	5.8	B2/1000		G2/1000
BVH (80°-90°)	127.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2075.9	2075.9	2075.9	2075.9	2075.9	2075.9	2075.9	2075.9	2075.9	2075.9	2075.9
2.5°	2089.1	2091.3	2089.6	2094.0	2089.1	2092.4	2089.6	2089.6	2088.0	2083.1	2077.6
5°	2121.9	2126.3	2123.5	2127.9	2121.9	2123.0	2118.1	2118.1	2113.1	2102.7	2091.8
7.5°	2173.3	2178.2	2176.0	2180.4	2172.2	2172.2	2165.7	2165.1	2155.3	2138.3	2125.7
10°	2234.6	2241.1	2239.0	2245.5	2239.0	2241.1	2234.6	2234.6	2221.4	2197.4	2181.5
12.5°	2323.7	2331.9	2325.9	2325.4	2322.6	2327.0	2321.6	2320.5	2308.4	2275.6	2253.7
15°	2443.0	2451.7	2439.2	2438.1	2422.8	2421.1	2421.1	2419.5	2411.8	2372.4	2336.3
17.5°	2580.3	2583.0	2572.1	2554.6	2534.9	2522.3	2520.7	2525.0	2525.0	2479.1	2421.7
20°	2714.9	2719.8	2711.0	2691.3	2666.2	2647.6	2634.4	2643.2	2642.7	2588.0	2506.4
22.5°	2861.5	2872.9	2859.8	2834.7	2805.1	2784.3	2761.4	2769.0	2769.6	2702.3	2589.6
25°	3051.3	3040.9	3032.7	2997.1	2955.0	2933.7	2912.3	2920.0	2917.8	2825.4	2675.5
27.5°	3219.2	3221.4	3210.5	3172.7	3124.0	3077.0	3075.9	3080.8	3072.6	2953.4	2756.4
30°	3414.5	3415.6	3400.3	3366.4	3313.3	3252.6	3238.4	3246.6	3229.1	3074.8	2841.8
32.5°	3608.7	3614.2	3597.2	3556.2	3513.5	3439.7	3411.2	3416.7	3372.9	3199.0	2929.8
35°	3778.8	3786.5	3781.0	3753.7	3707.2	3643.7	3609.8	3606.5	3552.3	3351.0	3046.4
37.5°	3952.2	3959.3	3953.3	3930.3	3911.7	3844.5	3826.4	3826.4	3732.3	3506.4	3194.6
40°	4130.5	4141.5	4134.4	4102.6	4086.8	4056.2	4012.9	4002.5	3900.8	3692.9	3436.4
42.5°	4296.3	4310.5	4339.0	4320.4	4288.1	4292.5	4205.5	4200.0	4125.6	3968.6	3740.0
45°	4531.5	4552.3	4600.4	4586.2	4579.6	4555.6	4452.2	4447.3	4418.8	4339.5	4116.9
47.5°	4788.1	4816.5	4903.5	4906.2	4976.8	4931.4	4790.8	4773.8	4780.4	4783.7	4576.9
50°	5024.4	5055.6	5198.3	5265.6	5431.9	5441.8	5216.9	5201.6	5227.3	5302.8	5113.0
52.5°	5213.1	5252.5	5430.8	5638.7	5923.7	6004.6	5741.5	5730.0	5749.2	5879.4	5719.1
55°	5351.5	5394.2	5588.4	5966.9	6422.0	6564.8	6345.4	6334.5	6346.5	6512.3	6378.3
57.5°	5383.8	5394.2	5675.9	6187.9	6842.7	7185.7	7084.5	7062.6	7003.5	7147.9	7105.8
60°	5232.2	5273.8	5603.7	6265.6	7168.1	7797.8	7856.8	7829.5	7663.7	7781.9	7748.0
62.5°	4924.8	4999.2	5334.0	6147.4	7295.6	8297.7	8614.5	8581.6	8296.1	8372.7	8209.7
65°	4422.7	4454.4	4806.1	5739.9	7133.7	8617.8	9290.0	9273.6	8914.2	8794.4	8295.0
67.5°	3524.4	3584.1	3882.7	4888.2	6471.2	8580.0	9812.4	9810.8	9317.9	8950.9	7992.5
69°	2784.3	2846.1	3130.6	4026.6	5726.2	8234.8	9900.0	9919.1	9431.7	8855.7	7560.4
70°	2219.8	2291.5	2486.8	3391.5	5064.9	7779.7	9827.2	9861.7	9409.8	8698.7	7161.6
72.5°	944.7	1002.7	1141.6	1748.3	3086.8	5809.4	8985.3	9115.5	8902.7	7961.3	5918.8
75°	412.5	430.5	493.4	712.8	1370.3	3161.8	7039.1	7279.7	7612.3	6729.4	4409.0
77.5°	302.0	309.6	344.1	418.5	614.9	1194.1	4526.6	4666.6	5489.9	4896.9	2704.5
80°	233.6	239.0	265.9	307.4	401.5	483.0	2064.5	2184.8	3086.8	2515.2	1126.3
82.5°	186.0	189.8	208.4	226.5	277.3	292.7	685.4	760.4	1139.4	694.7	298.1
85°	172.9	177.2	183.8	165.2	177.8	171.8	296.5	310.2	344.1	273.0	124.7
87.5°	78.2	92.4	182.2	128.5	94.6	75.5	121.4	126.9	142.8	143.3	55.2
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°	2075.9	2075.9	2075.9	2075.9	2075.9	2075.9	2075.9	2075.9	2075.9	2075.9	2075.9
2.5°	2080.9	2079.2	2082.0	2075.4	2083.6	2083.1	2080.3	2081.4	2086.9	2086.3	2086.9
5°	2093.4	2092.4	2095.6	2090.7	2100.6	2103.8	2104.4	2109.3	2115.3	2117.0	2117.0
7.5°	2125.2	2125.2	2126.8	2120.2	2126.8	2126.3	2123.5	2128.5	2134.5	2135.0	2134.5
10°	2179.9	2180.4	2177.7	2160.7	2155.3	2140.5	2126.8	2127.4	2135.0	2141.0	2142.7
12.5°	2248.8	2246.6	2234.6	2203.4	2180.4	2150.3	2136.1	2135.6	2143.2	2148.1	2149.8
15°	2327.6	2321.6	2290.4	2239.5	2199.0	2169.5	2146.5	2141.0	2136.7	2131.2	2131.7
17.5°	2402.0	2388.3	2336.3	2265.8	2223.1	2183.7	2139.4	2103.8	2079.2	2065.0	2060.6
20°	2477.5	2450.6	2375.7	2290.4	2236.2	2164.6	2079.2	2007.0	1962.2	1941.4	1937.5
22.5°	2546.4	2503.2	2412.4	2316.1	2225.8	2100.0	1966.0	1861.0	1798.6	1770.7	1772.9
25°	2613.7	2553.5	2450.6	2334.1	2173.3	1986.2	1808.4	1679.4	1607.1	1576.0	1574.9
27.5°	2672.7	2604.4	2492.2	2319.4	2075.4	1824.3	1621.9	1496.1	1435.9	1409.1	1404.7
30°	2740.6	2668.4	2547.5	2263.0	1932.1	1637.2	1439.8	1351.1	1308.5	1281.7	1276.7
32.5°	2823.2	2755.3	2592.9	2160.7	1748.8	1441.9	1297.5	1235.7	1196.9	1166.8	1161.3
35°	2943.5	2870.2	2604.4	2014.1	1547.5	1287.7	1193.1	1129.6	1077.1	1038.2	1034.4
37.5°	3094.5	3014.1	2578.1	1824.3	1352.2	1187.6	1106.1	1027.9	959.5	904.8	896.0
40°	3312.2	3190.8	2505.4	1605.5	1208.4	1110.5	1021.3	932.1	847.3	783.3	770.8
42.5°	3573.7	3398.1	2393.8	1387.8	1102.8	1032.2	937.0	826.5	745.6	700.2	693.6
45°	3906.3	3613.6	2239.0	1197.4	998.9	954.0	846.2	744.5	694.2	660.8	655.3
47.5°	4285.9	3855.4	2076.5	1042.6	910.8	880.7	773.5	707.8	667.9	641.7	636.7
50°	4752.5	4128.4	1904.2	915.7	822.2	792.6	739.0	687.6	655.9	635.6	630.7
52.5°	5278.7	4436.3	1780.0	815.6	748.9	727.5	721.0	676.7	651.0	635.6	630.7
55°	5845.5	4749.8	1646.0	731.4	685.4	691.4	708.9	677.8	660.3	641.7	634.5
57.5°	6412.7	5073.6	1496.6	660.3	635.1	664.6	700.7	679.9	665.2	647.1	640.6
60°	6861.3	5278.7	1265.3	600.6	595.2	635.1	681.0	663.5	644.4	644.9	643.8
62.5°	7070.8	5267.8	1009.8	547.6	555.2	595.2	649.3	637.8	622.0	643.3	644.9
65°	6953.2	5005.2	786.1	499.4	512.6	553.6	616.5	625.2	630.7	671.7	677.2
67.5°	6459.8	4494.3	608.8	457.3	473.7	525.1	619.8	681.0	688.2	731.4	730.8
69°	5949.4	4015.1	529.0	435.4	454.6	532.3	662.4	716.6	689.8	735.7	729.2
70°	5521.6	3636.0	486.3	420.7	445.8	544.8	690.9	716.0	681.6	721.0	710.0
72.5°	4252.5	2615.8	412.5	393.3	416.3	521.3	699.1	700.2	662.4	670.1	651.5
75°	2916.7	1653.1	359.9	356.1	371.4	469.9	672.8	669.0	612.7	601.7	586.4
77.5°	1608.2	839.7	305.8	320.6	330.9	416.3	611.6	606.1	559.6	536.6	531.2
80°	620.3	367.6	258.2	285.0	291.6	360.5	536.1	531.2	492.3	462.8	454.6
82.5°	234.1	192.6	213.3	246.7	244.5	297.6	454.0	451.3	413.5	370.3	357.2
85°	108.3	115.4	169.0	203.5	187.6	220.4	363.2	368.1	322.2	270.8	270.8
87.5°	45.9	64.5	119.8	153.7	126.4	148.8	266.4	254.4	233.6	161.9	152.1
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)