

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: P319205

Luminaire Tested: **GAN-SA1C-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5844.1 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

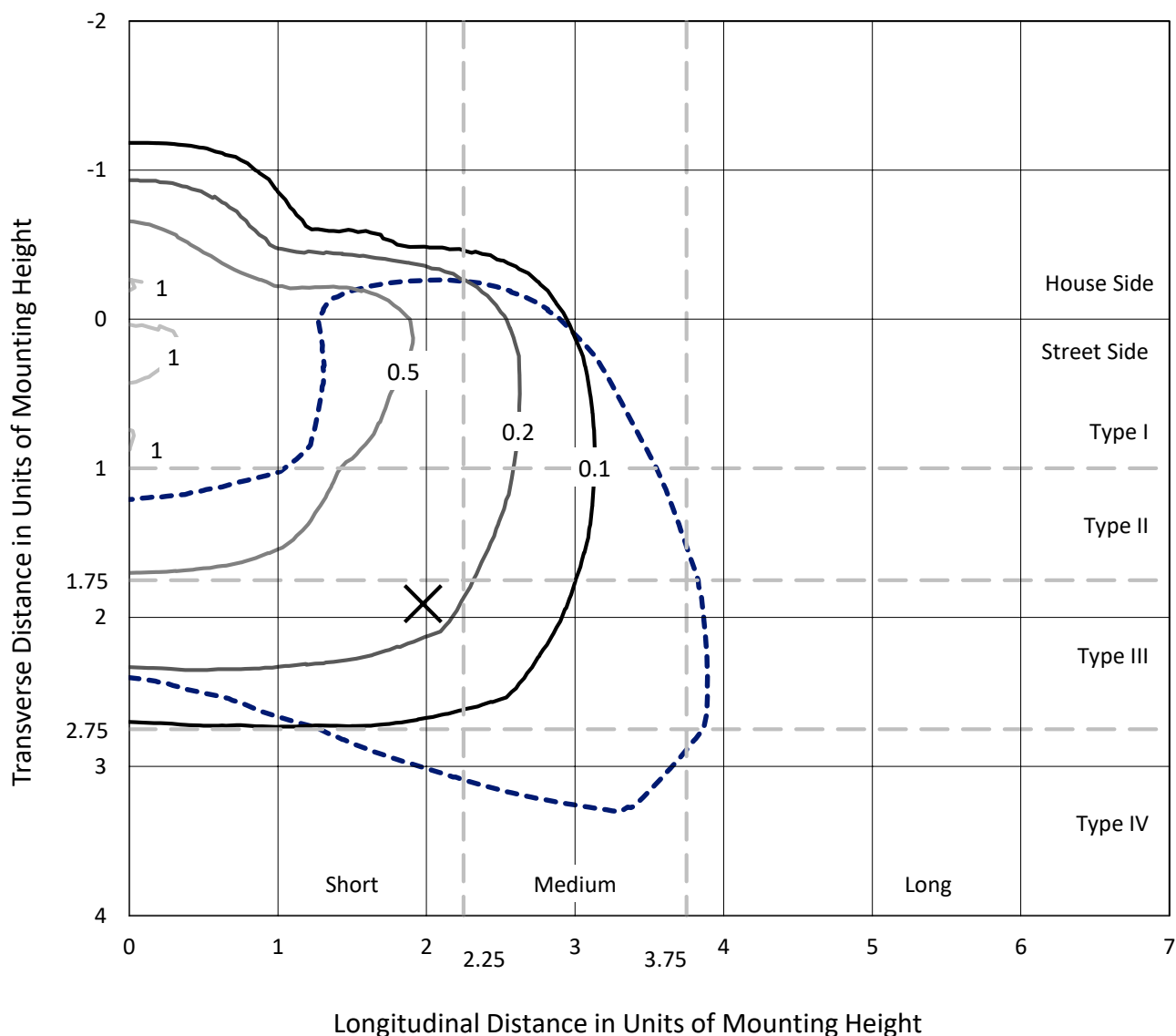
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

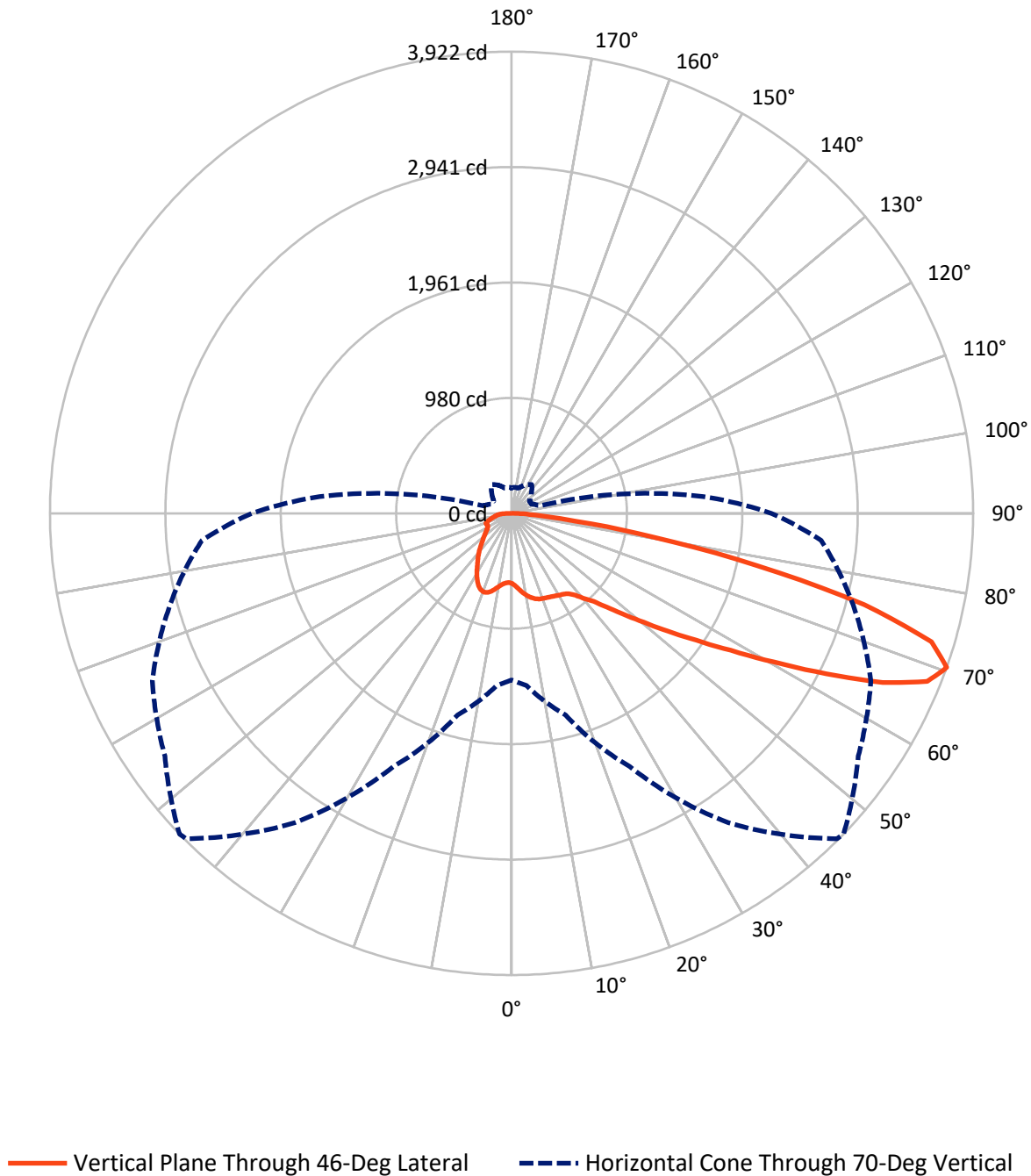
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1339.4	0.0	1339.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4504.6	0.0	4504.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	5844.1	0.0	5844.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.0
10°-20°	202.2	3.5
20°-30°	337.2	5.8
30°-40°	478.5	8.2
40°-50°	703.8	12.0
50°-60°	1191.9	20.4
60°-70°	1691.9	29.0
70°-80°	1027.8	17.6
80°-90°	150.0	2.6
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°	5844.1	100.0
0°-180°	5844.1	100.0

Coefficient of Utilization



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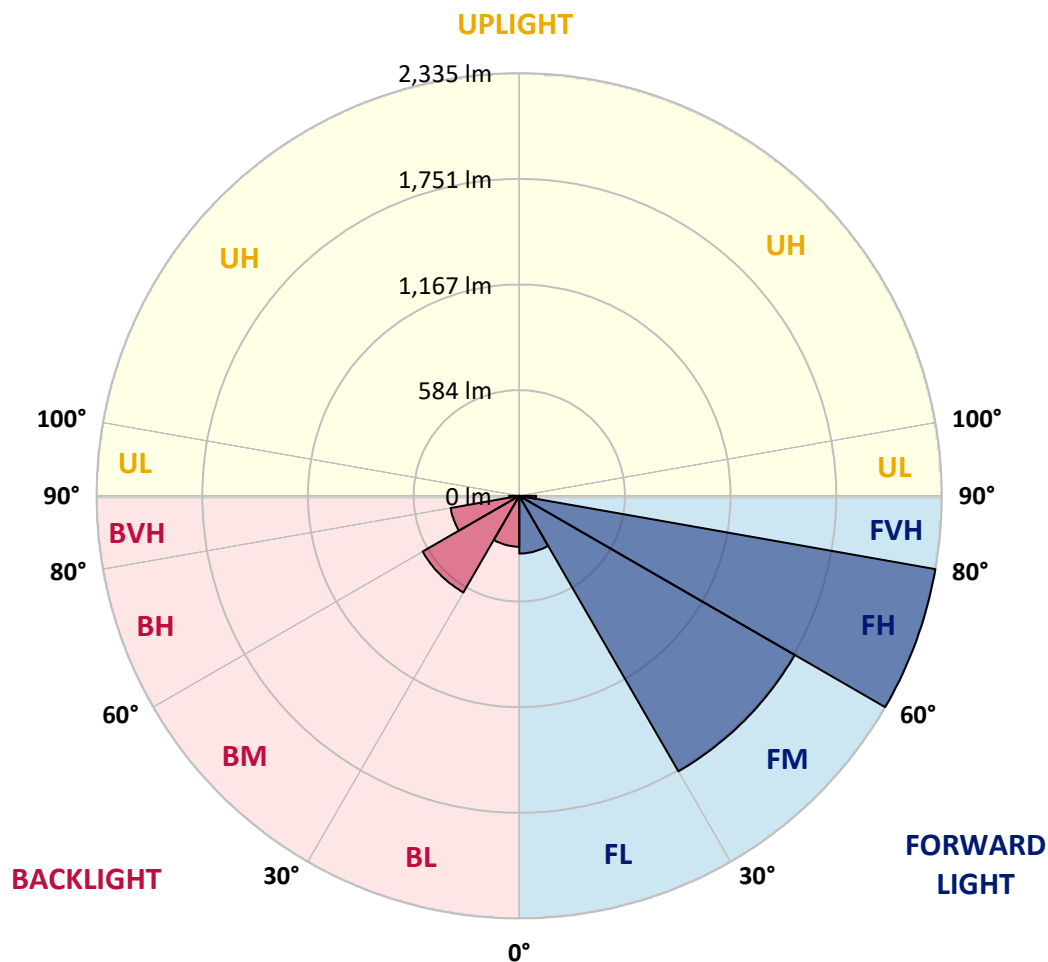
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.9	5.5			
FM	(30°-60°)	1757.6	30.1			
FH	(60°-80°)	2334.6	39.9			G2/5000
FVH	(80°-90°)	93.4	1.6			G1/100
BL	(0°-30°)	281.2	4.8	B1/500		
BM	(30°-60°)	616.6	10.6	B1/1000		
BH	(60°-80°)	385.1	6.6	B1/500		G1/500
BVH	(80°-90°)	56.6	1.0			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	595.4	595.4	595.4	595.4	595.4	595.4	595.4	595.4	595.4	595.4	595.4
2.5°	625.2	625.6	626.4	624.4	618.8	617.2	616.6	610.8	607.0	601.4	596.6
5°	675.2	675.6	674.4	668.8	656.4	647.2	646.4	633.2	621.2	608.4	598.8
7.5°	727.4	728.0	724.2	713.6	696.2	680.2	679.2	661.2	643.0	623.6	609.2
10°	773.6	771.2	765.0	750.2	729.6	710.0	709.2	690.4	669.4	646.0	626.8
12.5°	804.4	802.4	794.4	776.4	753.8	735.8	734.2	716.8	696.4	670.8	647.8
15°	821.4	822.8	812.0	791.6	769.6	754.4	753.0	740.6	722.4	696.6	670.2
17.5°	823.6	824.8	814.4	794.2	776.2	765.8	765.2	757.0	743.8	719.0	691.4
20°	810.8	811.6	803.0	786.4	774.6	771.4	771.2	767.6	757.8	735.8	709.0
22.5°	792.2	792.8	786.6	774.6	770.6	775.6	777.0	775.6	768.6	748.0	722.8
25°	787.6	787.2	780.8	768.6	772.0	782.6	784.4	785.0	780.2	762.2	740.4
27.5°	809.8	808.4	796.2	776.6	778.8	791.6	794.0	799.8	796.8	781.0	760.4
30°	874.0	871.6	846.6	807.0	796.2	802.8	805.8	815.0	815.6	802.4	787.0
32.5°	982.4	979.4	934.6	863.8	825.6	814.2	817.0	830.8	838.2	828.0	811.4
35°	1119.4	1116.0	1057.2	960.4	874.8	836.0	838.0	849.0	863.8	849.4	827.4
37.5°	1262.2	1254.0	1197.4	1074.0	953.0	882.6	882.6	884.0	891.0	861.0	846.2
40°	1404.2	1396.0	1344.8	1207.6	1054.2	956.0	951.4	920.4	914.8	889.0	884.0
42.5°	1536.2	1533.8	1503.6	1358.6	1173.0	1028.2	1021.8	969.2	970.4	954.4	954.6
45°	1676.6	1676.6	1652.0	1511.0	1311.4	1144.2	1137.8	1060.4	1072.4	1065.0	1082.8
47.5°	1791.2	1794.8	1791.4	1669.8	1472.4	1291.6	1280.0	1186.8	1220.4	1245.8	1297.6
50°	1908.2	1913.8	1914.4	1844.0	1667.0	1466.8	1453.6	1354.6	1429.6	1502.4	1604.2
52.5°	2078.0	2090.6	2040.4	2017.8	1905.4	1674.8	1661.8	1570.4	1695.6	1797.8	1973.2
55°	2235.4	2224.4	2188.6	2202.6	2160.6	1911.6	1901.8	1821.6	1992.0	2124.8	2352.6
57.5°	2320.6	2319.8	2355.8	2415.8	2435.8	2203.6	2195.4	2117.4	2326.2	2426.0	2708.8
60°	2420.6	2422.0	2511.2	2647.4	2729.8	2567.2	2563.6	2504.4	2650.8	2707.2	2988.1
62.5°	2434.6	2459.8	2613.4	2847.7	3004.9	2991.9	2999.9	2852.9	2941.1	2931.5	3196.7
65°	2273.6	2306.8	2584.8	2908.3	3278.5	3456.5	3463.9	3203.5	3170.1	3123.3	3271.3
67.5°	1943.6	1992.8	2294.8	2776.5	3368.7	3799.9	3810.3	3475.3	3360.1	3188.3	3091.7
70°	1414.4	1469.0	1773.0	2371.4	3207.9	3909.7	3921.5	3595.5	3367.3	3003.3	2639.4
72.5°	854.4	897.2	1147.8	1745.8	2707.6	3709.7	3730.7	3443.1	3074.3	2544.0	1949.0
75°	375.2	403.2	555.0	1006.0	1938.4	3069.3	3095.5	2947.1	2498.0	1848.8	1152.0
77.5°	159.8	167.8	227.6	437.0	1095.8	2097.4	2133.4	2153.4	1694.8	1006.0	486.8
80°	99.6	102.8	128.8	197.8	512.8	1178.0	1216.8	1267.0	841.6	369.8	170.0
82.5°	60.6	64.2	85.6	119.6	267.0	534.0	552.6	588.0	326.6	159.8	88.0
85°	36.4	39.0	52.4	75.6	152.0	210.0	209.8	232.0	153.8	102.8	46.4
87.5°	17.4	19.4	28.0	39.2	76.6	78.8	73.8	83.6	93.4	67.4	23.4
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°	595.4	595.4	595.4	595.4	595.4	595.4	595.4	595.4	595.4	595.4	595.4
2.5°	595.0	594.2	591.6	589.6	589.2	588.0	587.0	587.6	588.4	588.6	588.6
5°	594.8	592.6	589.2	587.8	589.6	592.0	595.0	599.0	601.4	603.2	604.4
7.5°	604.4	600.2	596.4	595.6	599.2	605.6	612.4	620.8	626.6	630.6	631.4
10°	620.4	615.2	611.4	612.2	618.6	627.8	637.4	648.2	657.0	662.4	662.8
12.5°	638.8	633.8	630.2	633.6	644.2	655.4	665.4	674.8	682.8	688.2	688.2
15°	660.0	656.4	652.2	660.0	674.4	684.4	688.6	693.2	697.6	701.6	700.8
17.5°	680.4	677.0	674.8	684.0	699.0	703.6	700.8	697.4	697.4	699.6	700.0
20°	698.0	695.0	696.4	705.4	713.2	708.4	698.0	687.2	682.8	684.0	685.2
22.5°	713.4	712.0	716.2	720.4	714.8	698.0	678.8	664.2	658.8	658.4	658.8
25°	731.4	731.2	736.4	728.8	704.0	673.0	647.2	633.0	630.0	632.4	636.4
27.5°	753.8	756.0	758.6	730.8	682.0	635.2	609.0	599.2	602.2	608.0	611.8
30°	782.4	788.4	782.8	725.8	650.4	592.0	567.0	564.2	572.4	580.6	584.6
32.5°	810.2	819.6	806.0	712.8	609.6	546.2	526.8	526.0	536.0	544.0	549.6
35°	832.6	851.2	823.4	687.0	562.4	504.0	489.8	484.4	488.0	497.4	503.8
37.5°	861.8	892.8	835.4	647.6	511.2	469.2	452.6	440.2	437.0	440.8	444.0
40°	915.2	956.2	841.0	592.6	461.2	434.4	417.6	399.4	386.8	377.6	377.8
42.5°	1002.4	1038.8	837.4	525.8	415.0	400.4	381.4	360.4	340.0	319.2	317.6
45°	1144.0	1161.6	826.6	455.0	374.4	364.8	347.0	326.0	298.8	275.2	273.0
47.5°	1370.6	1331.6	809.8	393.2	338.6	334.6	318.2	294.0	265.2	246.2	244.6
50°	1679.6	1577.0	801.6	344.0	307.0	308.2	294.8	269.2	242.0	228.0	226.4
52.5°	2049.2	1862.8	817.4	306.0	281.6	285.8	275.8	251.8	229.0	218.0	216.4
55°	2432.6	2158.8	834.4	278.4	257.6	265.8	262.4	242.6	222.0	211.8	210.4
57.5°	2760.7	2379.8	800.4	256.0	236.2	249.0	252.0	236.8	218.4	209.2	207.6
60°	2967.3	2468.8	711.2	235.0	219.2	235.6	246.0	235.2	219.8	219.0	217.8
62.5°	3065.3	2461.0	577.4	218.4	208.6	229.8	250.4	244.2	235.8	243.0	243.6
65°	3021.3	2343.4	430.0	207.4	201.0	232.0	263.6	261.2	240.4	247.6	248.6
67.5°	2731.8	2062.8	318.4	197.8	192.6	238.2	287.6	266.8	231.4	236.6	233.4
70°	2208.0	1635.4	245.6	187.0	184.0	237.4	298.4	263.4	221.6	222.8	214.2
72.5°	1522.6	1115.2	199.8	177.0	171.6	216.4	290.8	255.0	213.4	204.2	192.8
75°	828.0	598.6	169.8	166.6	149.8	190.0	276.8	249.0	206.0	193.8	187.4
77.5°	325.8	248.4	147.4	152.4	131.0	167.8	261.2	237.6	195.8	179.8	176.6
80°	133.0	126.8	122.2	131.8	112.6	146.8	242.4	224.2	183.6	166.8	160.4
82.5°	75.4	78.8	95.0	104.0	91.4	135.2	233.4	213.4	169.0	149.4	141.8
85°	38.6	46.2	66.2	74.6	67.2	115.0	215.0	186.8	135.6	114.4	115.0
87.5°	18.6	25.8	41.8	46.8	43.6	83.2	160.6	135.4	105.6	83.6	81.0
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)