

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: P318565

Luminaire Tested: **GAN-SA1C-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318565
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-SA1C-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5887 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

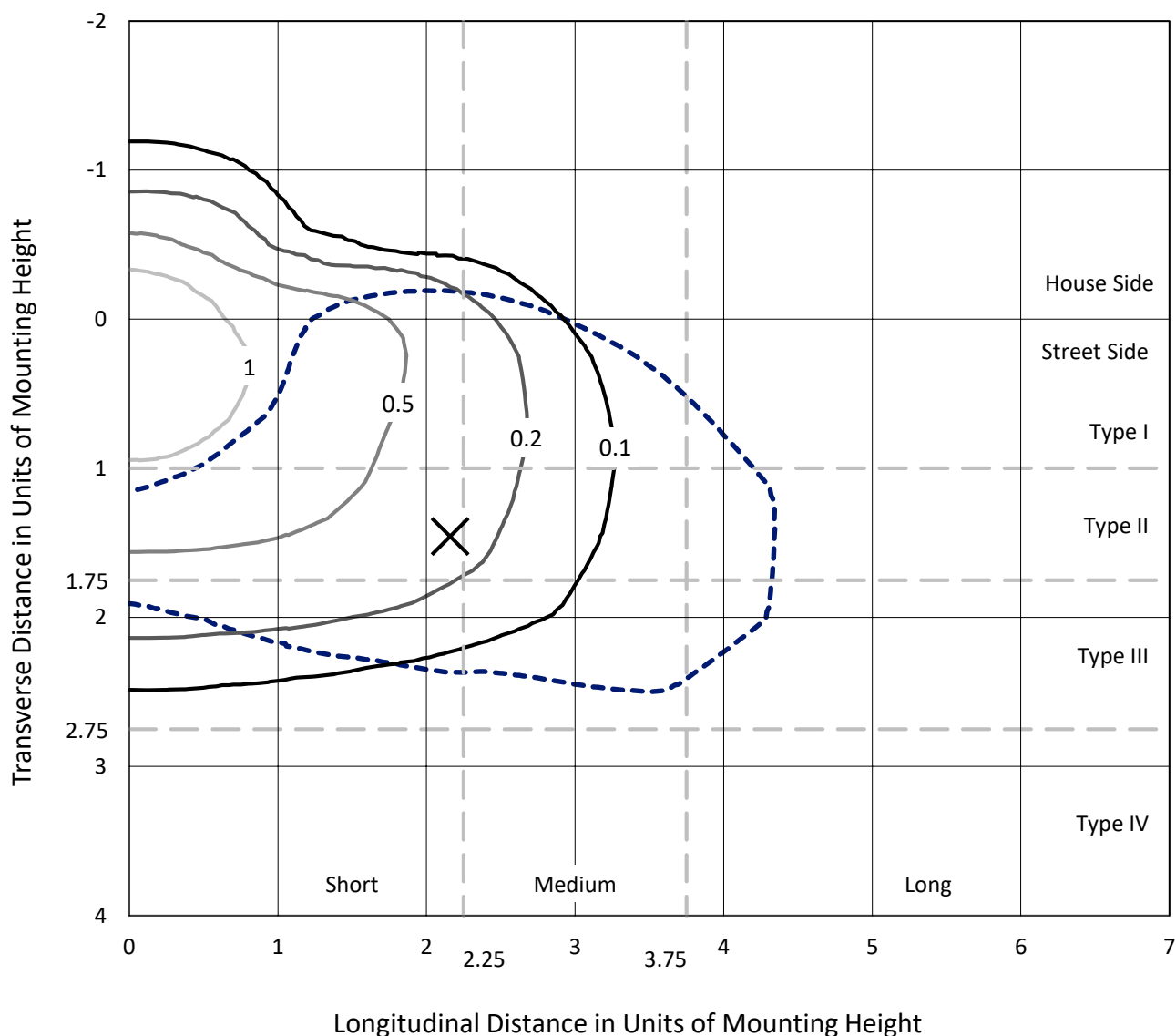
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

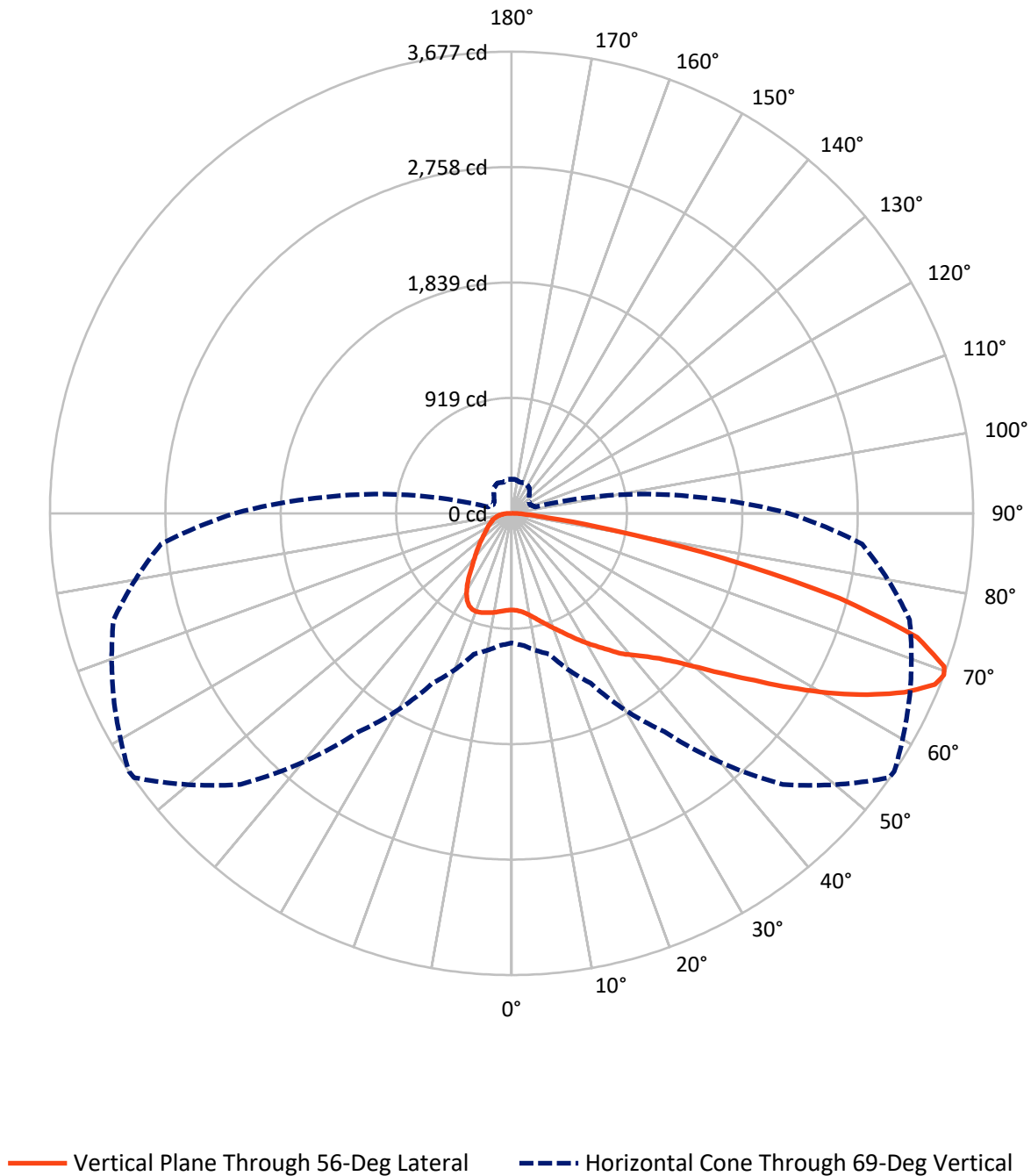
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1311.0	0.0	1311.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	4576.0	0.0	4576.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	5887.0	0.0	5887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.3
10°-20°	243.1	4.1
20°-30°	424.3	7.2
30°-40°	609.5	10.4
40°-50°	843.5	14.3
50°-60°	1235.9	21.0
60°-70°	1506.8	25.6
70°-80°	833.0	14.2
80°-90°	115.4	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°	5887.0	100.0
0°-180°	5887.0	100.0

Coefficient of Utilization



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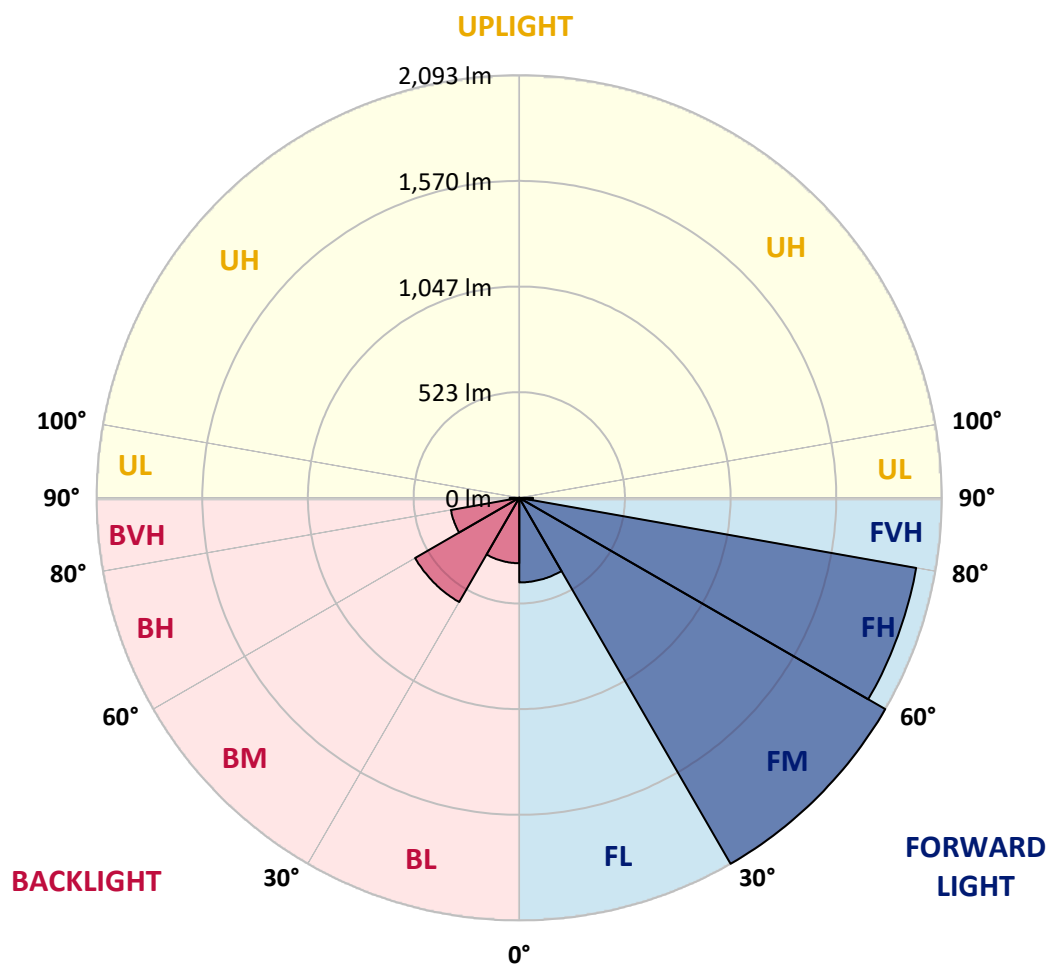
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	419.0	7.1			
FM	(30°-60°)	2093.0	35.6			
FH	(60°-80°)	1996.0	33.9			G2/5000
FVH	(80°-90°)	68.0	1.2			G1/100
BL	(0°-30°)	324.0	5.5	B1/500		
BM	(30°-60°)	595.8	10.1	B1/1000		
BH	(60°-80°)	343.8	5.8	B1/500		G1/500
BVH	(80°-90°)	47.4	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6
2.5°	774.5	775.3	774.7	776.3	774.5	775.7	774.7	774.7	774.1	772.3	770.2
5°	786.7	788.3	787.3	788.9	786.7	787.1	785.3	785.3	783.4	779.6	775.5
7.5°	805.7	807.6	806.7	808.4	805.3	805.3	802.9	802.9	799.0	792.8	788.1
10°	828.4	830.9	830.1	832.5	830.1	830.9	828.4	828.4	823.6	814.7	808.8
12.5°	861.5	864.5	862.3	862.1	861.1	862.7	860.7	860.3	855.8	843.7	835.5
15°	905.7	909.0	904.3	903.9	898.2	897.6	897.6	897.0	894.2	879.6	866.2
17.5°	956.6	957.6	953.6	947.1	939.8	935.1	934.5	936.1	936.1	919.1	897.8
20°	1006.5	1008.3	1005.1	997.8	988.5	981.6	976.7	979.9	979.7	959.5	929.2
22.5°	1060.9	1065.1	1060.3	1050.9	1040.0	1032.3	1023.7	1026.6	1026.8	1001.8	960.1
25°	1131.2	1127.4	1124.3	1111.2	1095.5	1087.6	1079.7	1082.6	1081.8	1047.5	991.9
27.5°	1193.5	1194.3	1190.2	1176.3	1158.2	1140.8	1140.4	1142.2	1139.1	1094.9	1021.9
30°	1265.9	1266.3	1260.6	1248.0	1228.4	1205.9	1200.6	1203.6	1197.1	1140.0	1053.6
32.5°	1337.9	1339.9	1333.6	1318.4	1302.6	1275.2	1264.7	1266.7	1250.5	1186.0	1086.2
35°	1401.0	1403.8	1401.8	1391.6	1374.4	1350.9	1338.3	1337.1	1317.0	1242.4	1129.4
37.5°	1465.3	1467.9	1465.7	1457.1	1450.2	1425.3	1418.6	1418.6	1383.7	1300.0	1184.4
40°	1531.4	1535.4	1532.8	1521.0	1515.1	1503.8	1487.8	1483.9	1446.2	1369.1	1274.0
42.5°	1592.8	1598.1	1608.6	1601.7	1589.8	1591.4	1559.1	1557.1	1529.5	1471.3	1386.6
45°	1680.0	1687.7	1705.6	1700.3	1697.9	1688.9	1650.6	1648.8	1638.2	1608.8	1526.3
47.5°	1775.1	1785.7	1817.9	1818.9	1845.1	1828.3	1776.1	1769.9	1772.3	1773.5	1696.9
50°	1862.7	1874.3	1927.2	1952.2	2013.8	2017.5	1934.1	1928.5	1938.0	1966.0	1895.6
52.5°	1932.7	1947.3	2013.4	2090.5	2196.2	2226.2	2128.6	2124.4	2131.5	2179.7	2120.3
55°	1984.0	1999.8	2071.8	2212.2	2380.9	2433.8	2352.5	2348.5	2352.9	2414.4	2364.7
57.5°	1996.0	1999.8	2104.3	2294.1	2536.9	2664.0	2626.5	2618.4	2596.5	2650.0	2634.4
60°	1939.8	1955.2	2077.5	2322.9	2657.5	2891.0	2912.9	2902.7	2841.3	2885.1	2872.5
62.5°	1825.8	1853.4	1977.5	2279.1	2704.8	3076.3	3193.7	3181.6	3075.7	3104.1	3043.7
65°	1639.7	1651.4	1781.8	2128.0	2644.8	3195.0	3444.2	3438.1	3304.9	3260.5	3075.3
67.5°	1306.7	1328.8	1439.5	1812.2	2399.2	3181.0	3637.9	3637.3	3454.5	3318.5	2963.2
69°	1032.3	1055.2	1160.6	1492.8	2122.9	3053.0	3670.3	3677.4	3496.7	3283.2	2802.9
70°	823.0	849.5	921.9	1257.4	1877.8	2884.3	3643.4	3656.1	3488.6	3225.0	2655.1
72.5°	350.2	371.7	423.2	648.2	1144.4	2153.8	3331.2	3379.5	3300.6	2951.6	2194.3
75°	152.9	159.6	182.9	264.3	508.0	1172.2	2609.7	2698.9	2822.2	2494.9	1634.6
77.5°	111.9	114.8	127.6	155.1	228.0	442.7	1678.2	1730.1	2035.3	1815.5	1002.7
80°	86.6	88.6	98.6	114.0	148.9	179.1	765.4	810.0	1144.4	932.5	417.6
82.5°	69.0	70.4	77.3	84.0	102.8	108.5	254.1	281.9	422.4	257.6	110.5
85°	64.1	65.7	68.1	61.2	65.9	63.7	109.9	115.0	127.6	101.2	46.2
87.5°	29.0	34.3	67.5	47.7	35.1	28.0	45.0	47.1	52.9	53.1	20.5
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°	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6
2.5°	771.5	770.9	771.9	769.4	772.5	772.3	771.3	771.7	773.7	773.5	773.7
5°	776.1	775.7	776.9	775.1	778.8	780.0	780.2	782.0	784.2	784.8	784.8
7.5°	787.9	787.9	788.5	786.1	788.5	788.3	787.3	789.1	791.3	791.5	791.3
10°	808.2	808.4	807.4	801.1	799.0	793.6	788.5	788.7	791.5	793.8	794.4
12.5°	833.7	832.9	828.4	816.9	808.4	797.2	791.9	791.7	794.6	796.4	797.0
15°	862.9	860.7	849.1	830.3	815.3	804.3	795.8	793.8	792.1	790.1	790.3
17.5°	890.5	885.4	866.2	840.0	824.2	809.6	793.2	780.0	770.9	765.6	764.0
20°	918.5	908.6	880.8	849.1	829.1	802.5	770.9	744.1	727.5	719.7	718.3
22.5°	944.0	928.0	894.4	858.7	825.2	778.6	728.9	689.9	666.8	656.5	657.3
25°	969.0	946.7	908.6	865.4	805.7	736.4	670.5	622.6	595.8	584.3	583.9
27.5°	990.9	965.5	924.0	859.9	769.4	676.3	601.3	554.7	532.4	522.4	520.8
30°	1016.0	989.3	944.5	839.0	716.3	607.0	533.8	500.9	485.1	475.2	473.3
32.5°	1046.7	1021.5	961.3	801.1	648.4	534.6	481.0	458.1	443.7	432.6	430.6
35°	1091.3	1064.1	965.5	746.7	573.7	477.4	442.3	418.8	399.3	384.9	383.5
37.5°	1147.3	1117.4	955.8	676.3	501.3	440.3	410.1	381.1	355.7	335.4	332.2
40°	1228.0	1182.9	928.8	595.2	448.0	411.7	378.6	345.6	314.1	290.4	285.7
42.5°	1324.9	1259.8	887.5	514.5	408.9	382.7	347.4	306.4	276.4	259.6	257.2
45°	1448.2	1339.7	830.1	443.9	370.3	353.7	313.7	276.0	257.4	245.0	243.0
47.5°	1589.0	1429.4	769.8	386.5	337.7	326.5	286.8	262.4	247.6	237.9	236.1
50°	1762.0	1530.6	706.0	339.5	304.8	293.9	274.0	254.9	243.2	235.7	233.8
52.5°	1957.0	1644.7	659.9	302.4	277.6	269.7	267.3	250.9	241.3	235.7	233.8
55°	2167.2	1760.9	610.2	271.1	254.1	256.3	262.8	251.3	244.8	237.9	235.3
57.5°	2377.5	1881.0	554.9	244.8	235.5	246.4	259.8	252.1	246.6	239.9	237.5
60°	2543.8	1957.0	469.1	222.7	220.6	235.5	252.5	246.0	238.9	239.1	238.7
62.5°	2621.4	1953.0	374.4	203.0	205.8	220.6	240.7	236.5	230.6	238.5	239.1
65°	2577.8	1855.6	291.4	185.2	190.0	205.2	228.6	231.8	233.8	249.0	251.1
67.5°	2394.9	1666.2	225.7	169.5	175.6	194.7	229.8	252.5	255.1	271.1	270.9
69°	2205.7	1488.6	196.1	161.4	168.5	197.3	245.6	265.7	255.7	272.8	270.3
70°	2047.1	1348.0	180.3	156.0	165.3	202.0	256.1	265.5	252.7	267.3	263.2
72.5°	1576.6	969.8	152.9	145.8	154.3	193.3	259.2	259.6	245.6	248.4	241.5
75°	1081.3	612.9	133.4	132.0	137.7	174.2	249.4	248.0	227.1	223.1	217.4
77.5°	596.2	311.3	113.4	118.8	122.7	154.3	226.7	224.7	207.5	198.9	196.9
80°	230.0	136.3	95.7	105.7	108.1	133.6	198.7	196.9	182.5	171.6	168.5
82.5°	86.8	71.4	79.1	91.5	90.7	110.3	168.3	167.3	153.3	137.3	132.4
85°	40.2	42.8	62.7	75.4	69.6	81.7	134.7	136.5	119.5	100.4	100.4
87.5°	17.0	23.9	44.4	57.0	46.8	55.2	98.8	94.3	86.6	60.0	56.4
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)