

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: P321005

Luminaire Tested: **GAN-SA1C-750-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7598 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

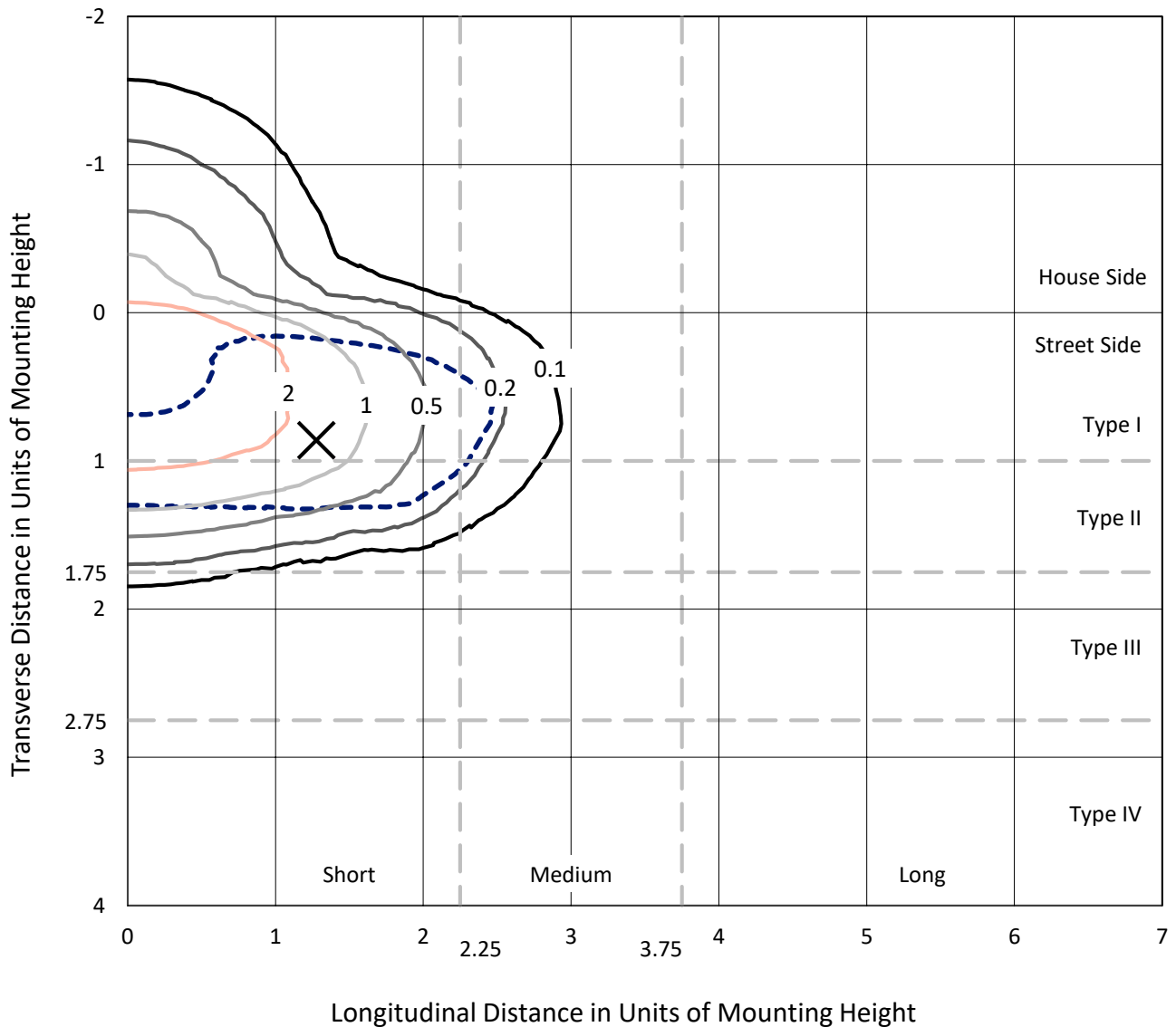
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

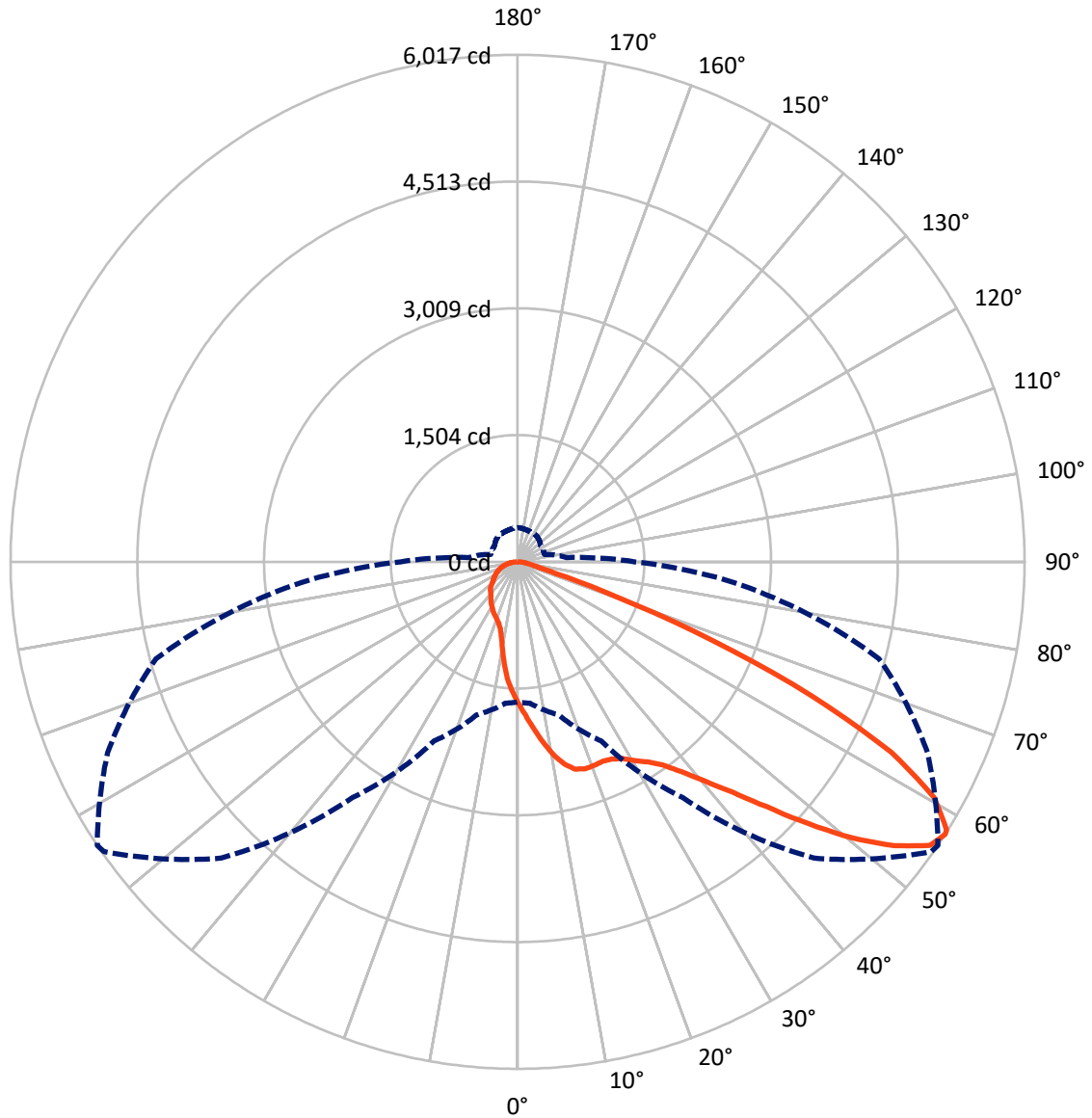
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1309.7	0.0	1309.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	6288.3	0.0	6288.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	7598.0	0.0	7598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	2.1
10°-20°	455.1	6.0
20°-30°	741.3	9.8
30°-40°	1108.2	14.6
40°-50°	1680.9	22.1
50°-60°	1884.0	24.8
60°-70°	1112.8	14.6
70°-80°	364.6	4.8
80°-90°	90.1	1.2
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°	7598.0	100.0
0°-180°	7598.0	100.0

Coefficient of Utilization



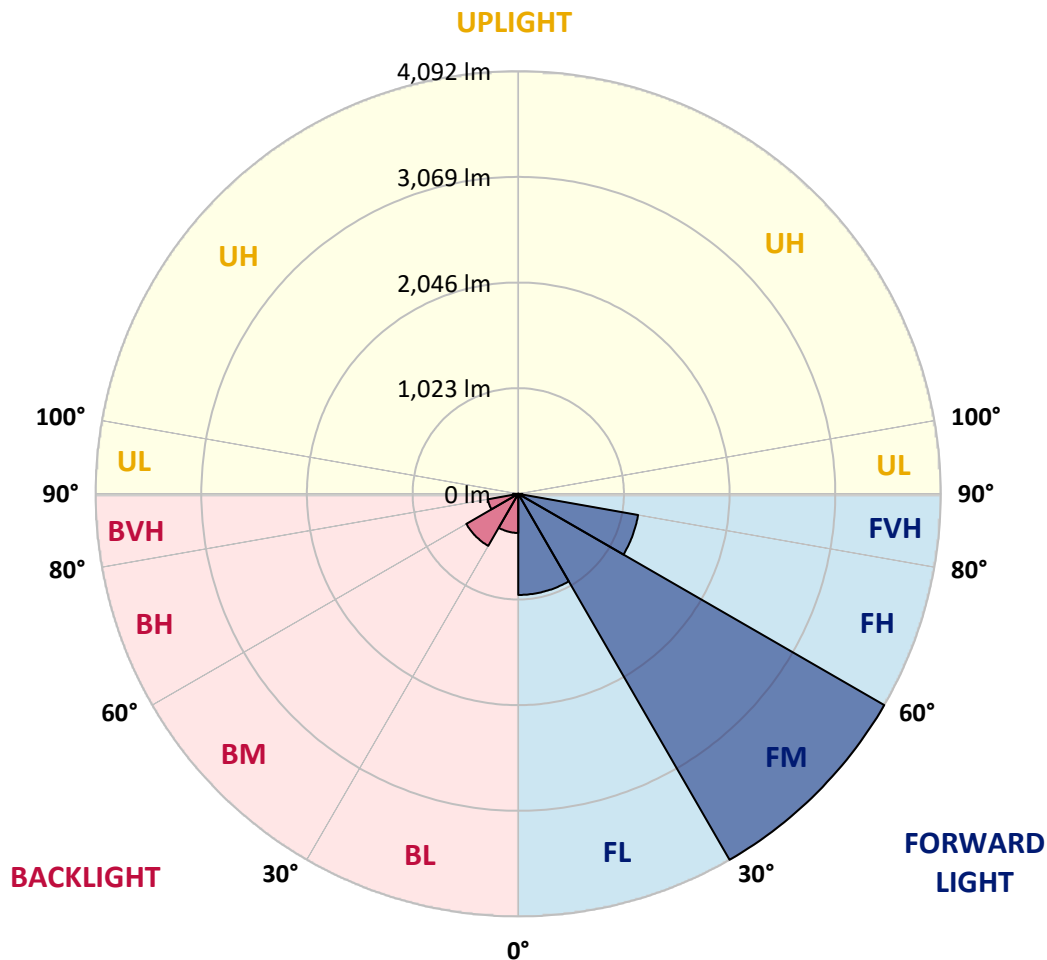
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	978.7	12.9			
FM (30°-60°)	4091.8	53.9			
FH (60°-80°)	1178.1	15.5			G1/1800
FVH (80°-90°)	39.7	0.5			G1/100
BL (0°-30°)	378.7	5.0	B1/500		
BM (30°-60°)	581.3	7.7	B1/1000		
BH (60°-80°)	299.3	3.9	B1/500		G1/500
BVH (80°-90°)	50.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2
2.5°	1935.1	1952.9	1945.1	1917.9	1897.0	1867.5	1834.6	1824.7	1790.0	1751.0	1704.3
5°	2241.4	2232.5	2219.7	2177.4	2132.8	2080.8	1998.3	1985.3	1908.0	1820.0	1727.0
7.5°	2415.8	2415.1	2407.5	2382.7	2342.0	2274.1	2174.6	2159.2	2042.5	1900.9	1756.8
10°	2390.5	2388.7	2401.2	2427.1	2439.3	2425.2	2341.4	2326.0	2182.7	1990.5	1791.3
12.5°	2246.6	2247.7	2267.8	2322.1	2396.0	2484.8	2471.2	2463.6	2328.1	2091.8	1833.0
15°	2134.6	2137.0	2152.9	2200.2	2287.4	2448.5	2550.1	2552.7	2468.9	2203.6	1881.9
17.5°	2085.5	2090.5	2097.8	2131.0	2210.9	2376.2	2568.9	2583.0	2592.1	2319.5	1928.9
20°	2101.2	2105.9	2108.0	2129.1	2194.7	2332.3	2555.8	2581.1	2686.6	2428.6	1975.9
22.5°	2171.4	2174.3	2175.6	2181.1	2232.0	2344.8	2547.2	2573.8	2755.0	2526.6	2011.4
25°	2287.9	2285.8	2277.5	2270.4	2304.6	2394.4	2567.0	2592.4	2810.7	2615.3	2034.6
27.5°	2427.3	2424.7	2408.5	2389.2	2408.8	2471.7	2624.2	2644.3	2860.5	2698.4	2046.4
30°	2594.7	2587.9	2557.4	2534.4	2542.0	2587.7	2718.5	2736.8	2937.6	2792.6	2057.9
32.5°	2788.2	2780.9	2736.8	2698.6	2698.6	2736.8	2815.6	2830.8	3002.8	2899.2	2076.4
35°	3030.5	3021.4	2963.9	2900.0	2881.9	2901.3	2948.0	2958.7	3120.3	3033.4	2110.1
37.5°	3316.2	3303.9	3229.5	3143.8	3104.4	3103.4	3137.0	3159.0	3308.1	3209.6	2167.3
40°	3602.6	3594.0	3529.0	3461.6	3384.3	3359.5	3411.5	3418.3	3553.5	3428.5	2240.4
42.5°	3824.0	3822.5	3810.5	3819.3	3740.2	3690.1	3730.8	3736.3	3853.3	3665.3	2318.2
45°	3941.0	3943.6	4001.9	4130.9	4160.1	4123.5	4143.7	4145.2	4195.9	3904.2	2389.5
47.5°	3847.3	3860.9	4008.1	4296.7	4536.1	4657.5	4624.1	4643.4	4528.0	4109.4	2445.4
50°	3482.0	3498.7	3749.4	4222.8	4711.6	5174.3	5156.8	5152.3	4795.9	4259.8	2475.6
52.5°	3029.5	3042.5	3249.3	3838.7	4582.8	5459.9	5620.5	5597.5	5034.1	4372.4	2481.4
55°	2340.4	2360.8	2558.9	3072.0	4062.2	5350.8	5961.5	5940.9	5251.0	4431.4	2474.6
57°	1663.8	1685.2	1882.1	2344.6	3417.2	4973.0	5995.5	6017.4	5368.3	4441.3	2482.2
57.5°	1484.7	1506.6	1701.7	2150.8	3216.2	4836.4	5966.2	6002.8	5389.4	4439.8	2486.3
60°	747.6	755.9	880.2	1200.6	2033.0	3910.0	5584.8	5679.0	5408.5	4363.0	2504.4
62.5°	464.8	458.8	454.9	553.0	989.1	2592.9	4797.5	4979.0	5043.7	4177.1	2460.8
65°	408.6	397.4	354.3	346.5	436.8	1259.4	3612.8	3838.7	4264.3	3884.1	2356.8
67.5°	383.8	372.9	324.3	295.1	295.3	499.3	2243.0	2497.3	3321.9	3388.8	2111.6
70°	358.3	348.3	302.9	268.4	251.5	276.5	1031.9	1224.9	2165.4	2663.6	1764.9
72.5°	325.4	318.6	275.5	240.0	221.9	207.1	395.1	466.6	1253.6	1788.9	1225.7
75°	290.9	284.6	247.8	213.9	191.9	162.9	222.5	239.7	636.9	915.2	603.4
77.5°	253.0	249.4	220.4	189.0	171.6	135.0	157.5	165.8	273.1	392.5	302.6
80°	201.3	208.4	192.7	168.4	152.2	108.1	111.5	117.0	159.0	191.7	171.8
82.5°	131.1	143.4	150.9	136.8	125.3	85.1	80.2	82.5	103.7	117.0	74.7
85°	54.6	61.4	99.2	89.6	83.3	62.1	53.8	54.8	64.2	66.6	30.6
87.5°	24.3	25.9	43.6	41.0	35.3	21.4	23.0	25.1	34.2	32.4	11.8
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°	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2
2.5°	1686.8	1664.9	1627.3	1585.8	1551.8	1524.7	1497.2	1478.4	1456.5	1444.8	1438.7
5°	1688.1	1645.0	1565.9	1484.7	1412.1	1345.8	1282.6	1234.0	1188.6	1164.1	1157.3
7.5°	1693.6	1628.8	1500.9	1367.2	1238.2	1120.4	1029.6	972.7	931.7	913.4	908.2
10°	1698.0	1609.8	1420.5	1222.5	1047.1	927.7	857.2	825.4	811.3	808.9	806.6
12.5°	1708.5	1590.2	1335.9	1071.6	898.5	816.0	791.4	789.4	793.3	799.0	799.0
15°	1724.9	1570.9	1239.3	942.1	804.0	775.0	780.0	791.4	802.1	811.0	812.3
17.5°	1736.9	1547.1	1135.3	838.4	753.6	761.4	779.2	795.4	806.3	814.9	815.7
20°	1745.6	1510.3	1024.4	759.3	724.6	748.9	771.1	785.4	793.0	801.6	802.9
22.5°	1741.1	1460.9	925.9	702.7	701.1	730.6	751.8	769.0	763.2	754.9	760.4
25°	1719.7	1393.1	824.6	660.4	676.3	706.1	732.2	720.7	701.4	697.7	699.8
27.5°	1681.6	1306.4	730.9	621.2	647.6	683.3	681.8	670.3	663.5	658.8	661.7
30°	1640.6	1212.4	648.9	587.0	615.7	645.2	639.2	639.0	632.2	624.6	628.2
32.5°	1600.1	1117.8	583.9	558.8	591.7	595.6	608.7	612.6	599.3	583.3	582.3
35°	1564.9	1028.5	534.5	533.2	562.7	563.2	582.3	576.8	543.6	527.2	527.2
37.5°	1538.5	939.5	496.9	510.2	524.6	538.2	547.8	525.1	519.6	510.5	510.2
40°	1527.0	861.2	473.4	492.7	497.7	514.9	490.1	499.0	501.6	496.9	496.9
42.5°	1515.0	793.0	453.0	479.4	478.6	476.3	463.7	475.2	485.7	485.9	485.2
45°	1503.0	734.3	435.0	450.9	461.9	436.6	438.9	451.2	465.8	471.1	471.1
47.5°	1489.7	687.8	418.6	420.9	437.9	420.9	419.1	428.5	445.7	454.1	455.9
50°	1460.4	646.0	399.8	394.5	399.2	405.0	406.6	411.0	430.1	443.4	446.5
52.5°	1419.9	608.7	375.7	370.3	370.3	391.9	399.2	400.6	416.7	432.7	435.8
55°	1386.3	584.9	350.9	349.9	348.9	378.1	390.6	392.7	403.9	416.5	418.0
57°	1388.6	583.1	331.9	332.9	332.7	364.0	382.5	387.0	392.7	403.4	405.3
57.5°	1389.9	584.4	327.7	328.2	328.0	360.1	380.2	385.1	389.6	400.8	402.6
60°	1409.5	587.8	310.7	305.0	306.3	339.2	366.9	373.1	376.0	390.9	393.2
62.5°	1380.5	572.6	297.2	283.3	283.3	317.3	348.3	358.3	362.7	382.8	386.7
65°	1296.4	530.1	281.2	258.8	261.4	295.3	326.1	342.3	349.1	374.2	378.4
67.5°	1166.7	480.7	264.2	236.8	239.4	272.3	303.2	320.7	331.4	364.8	368.2
70°	997.7	420.4	241.3	213.6	216.7	247.3	276.0	295.8	311.8	355.9	356.9
72.5°	735.6	344.7	209.2	188.0	191.4	218.0	248.6	271.6	293.0	333.7	333.2
75°	437.4	269.5	173.6	162.2	164.5	189.3	223.8	251.7	283.8	325.1	330.1
77.5°	265.3	202.9	141.5	135.8	138.7	164.0	206.0	235.8	279.9	306.6	305.0
80°	160.3	144.9	113.1	109.4	112.3	140.2	190.6	223.8	244.7	261.9	261.9
82.5°	83.8	88.5	83.0	80.2	84.1	113.8	173.4	195.3	216.2	185.7	173.4
85°	34.2	46.2	50.4	50.1	52.5	78.9	149.6	167.1	139.4	132.4	135.5
87.5°	11.5	19.6	24.5	21.2	22.2	49.6	103.7	80.7	95.8	66.8	63.5
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)