

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: P317435

Luminaire Tested: **GAN-SA1B-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317435
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-SA1B-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6233 lumens
Efficiency: N/A
Efficacy: 141.7 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): 44
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

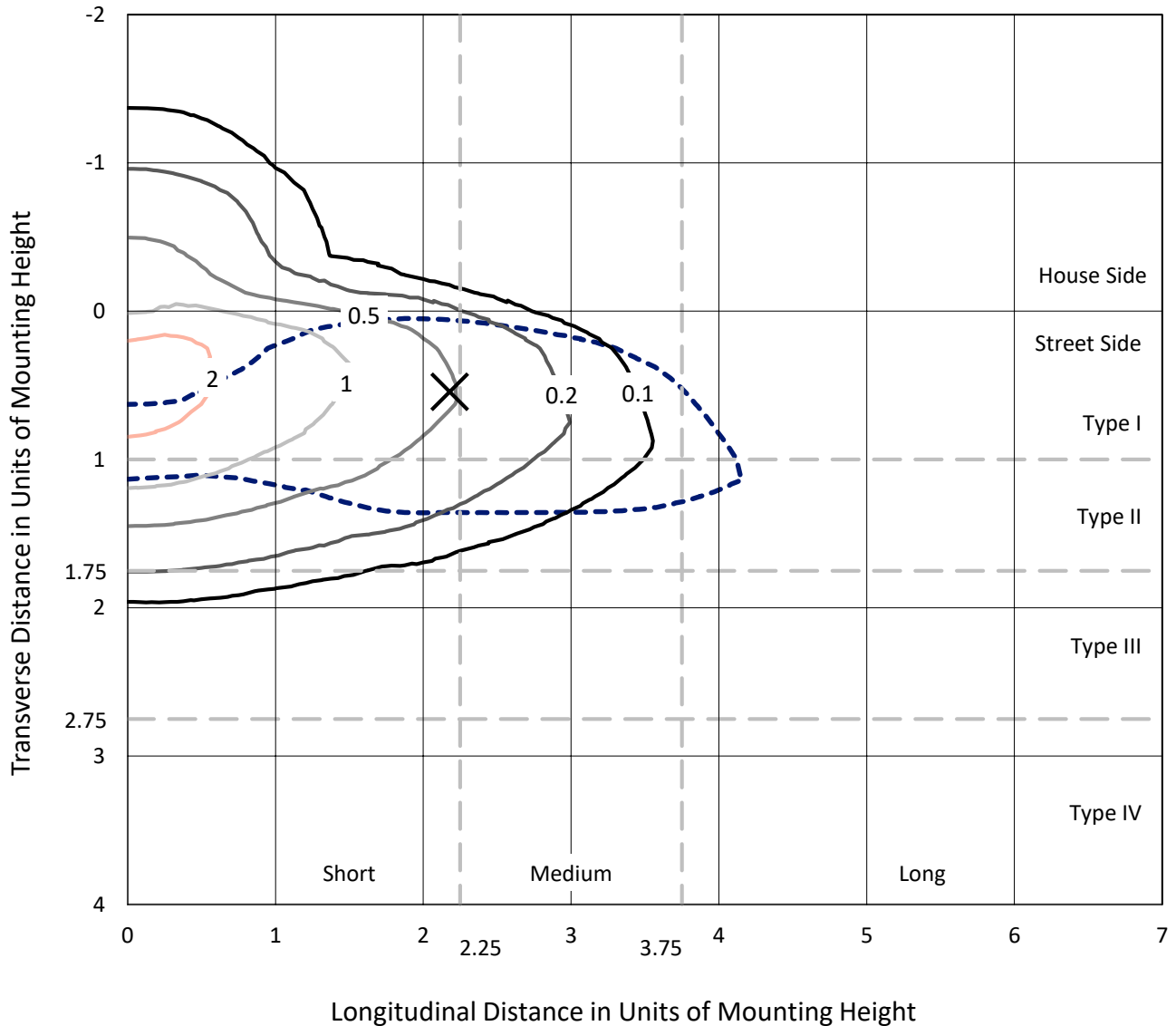




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Iso-Footcandle Lines of Horizontal Illumination

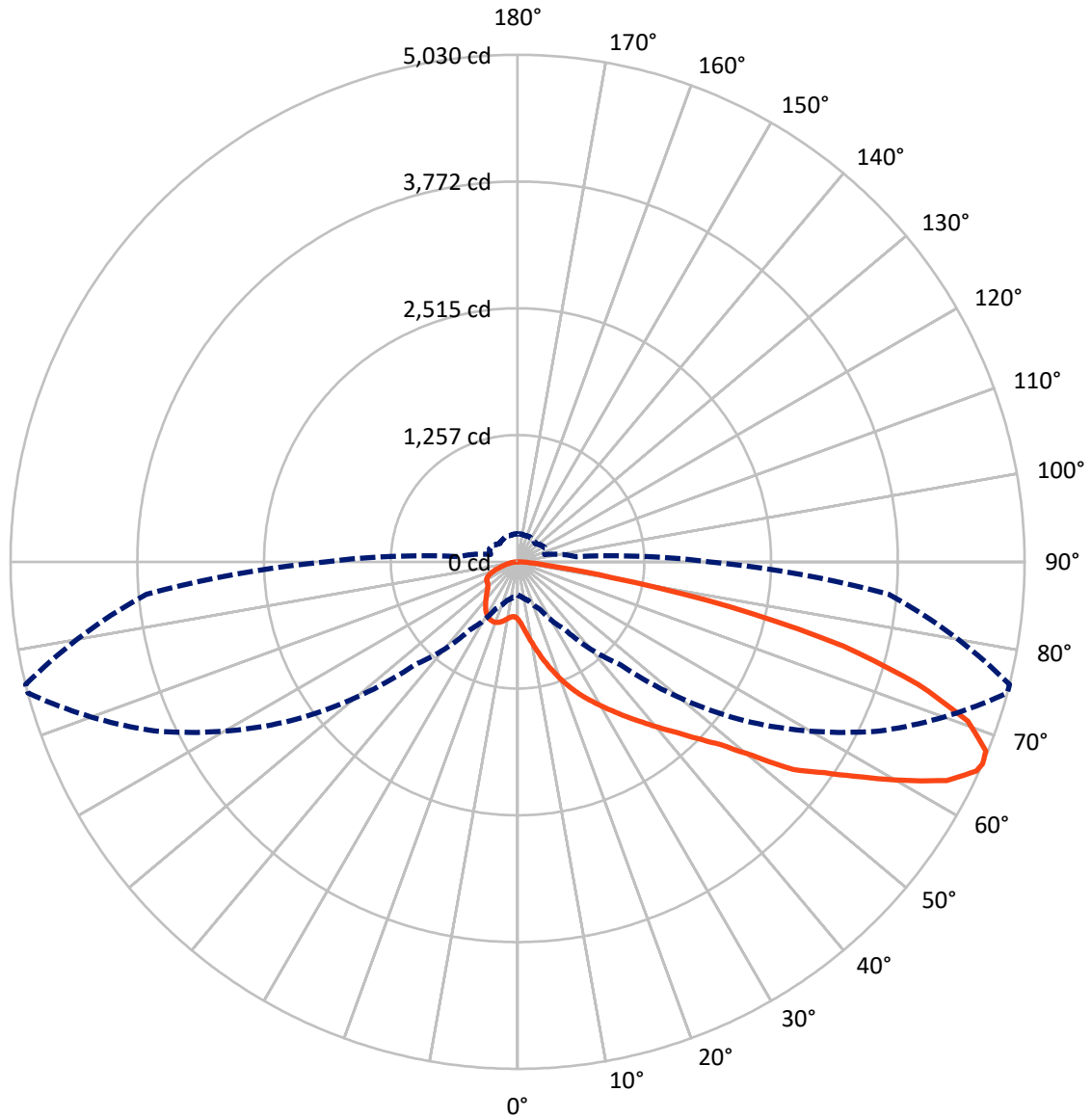
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1048.8	0.0	1048.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5184.2	0.0	5184.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	6233.0	0.0	6233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.1
10°-20°	271.8	4.4
20°-30°	528.2	8.5
30°-40°	862.2	13.8
40°-50°	1177.9	18.9
50°-60°	1372.0	22.0
60°-70°	1230.0	19.7
70°-80°	621.6	10.0
80°-90°	100.4	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°	6233.0	100.0
0°-180°	6233.0	100.0

Coefficient of Utilization



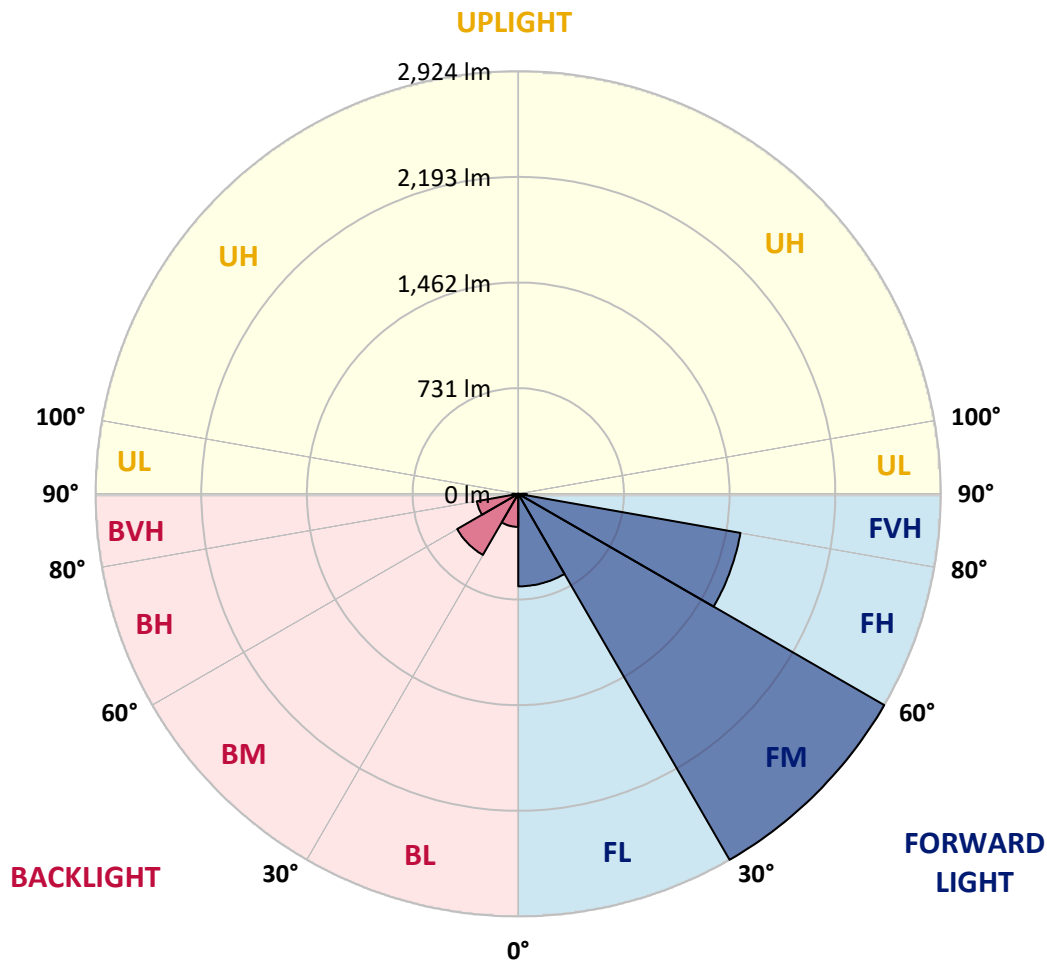
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.1	10.3			
FM (30°-60°)	2923.7	46.9			
FH (60°-80°)	1561.1	25.0			G1/1800
FVH (80°-90°)	59.3	1.0			G1/100
BL (0°-30°)	228.7	3.7	B1/500		
BM (30°-60°)	488.4	7.8	B1/1000		
BH (60°-80°)	290.6	4.7	B1/500		G1/500
BVH (80°-90°)	41.1	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°	65°	75°	76°	85°
0°	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
2.5°	755.6	744.2	743.2	726.4	722.6	690.7	667.2	642.6	614.7	609.2	587.2
5°	970.6	969.6	955.0	927.7	906.3	851.7	797.7	740.6	678.0	667.8	618.3
7.5°	1164.0	1162.3	1151.1	1121.7	1090.8	1023.7	946.7	859.1	757.5	742.5	660.4
10°	1310.9	1310.2	1306.4	1284.9	1258.6	1194.3	1109.2	989.7	850.0	829.5	713.1
12.5°	1424.3	1425.6	1428.1	1420.5	1408.0	1353.2	1266.0	1128.1	948.6	928.3	771.7
15°	1501.1	1504.9	1518.0	1528.8	1535.4	1501.8	1417.3	1269.6	1059.1	1034.7	836.7
17.5°	1539.8	1544.1	1566.7	1599.3	1629.3	1626.0	1558.9	1404.6	1165.1	1141.6	906.5
20°	1573.3	1576.4	1601.8	1641.0	1694.1	1717.6	1679.9	1534.5	1281.3	1253.3	980.6
22.5°	1670.2	1674.2	1681.8	1704.0	1751.0	1794.2	1776.0	1657.5	1387.7	1361.7	1050.8
25°	1857.2	1862.1	1845.6	1826.8	1835.7	1865.7	1869.1	1769.6	1495.6	1466.2	1126.4
27.5°	2082.6	2089.6	2061.4	2013.0	1970.7	1959.0	1955.0	1861.5	1598.7	1564.6	1201.1
30°	2303.3	2315.4	2278.8	2215.9	2138.3	2083.7	2043.2	1951.4	1700.2	1667.6	1271.5
32.5°	2518.9	2514.1	2460.9	2399.6	2308.6	2240.2	2142.5	2047.9	1814.5	1777.0	1341.6
35°	2666.6	2668.3	2619.0	2546.2	2459.5	2407.0	2275.4	2152.0	1931.1	1896.6	1421.1
37.5°	2792.3	2784.5	2728.6	2660.7	2586.0	2563.6	2430.9	2266.7	2057.4	2019.8	1505.8
40°	2834.2	2825.1	2788.5	2739.6	2679.7	2677.8	2602.5	2396.6	2200.3	2163.0	1601.2
42.5°	2808.8	2797.2	2782.2	2768.8	2750.4	2758.9	2763.8	2549.0	2357.3	2315.6	1711.7
45°	2715.1	2697.5	2708.1	2737.1	2777.1	2824.9	2909.3	2717.6	2533.1	2498.2	1841.4
47.5°	2571.0	2555.1	2588.1	2650.1	2758.9	2879.9	3047.1	2903.8	2743.0	2708.3	2026.1
50°	2368.3	2372.9	2420.1	2532.9	2697.3	2905.3	3216.8	3150.4	3048.1	3015.8	2278.1
52.5°	2035.6	2036.5	2169.4	2354.5	2588.1	2892.2	3311.0	3465.4	3464.8	3425.6	2518.1
55°	1726.7	1745.5	1850.7	2096.8	2411.2	2839.7	3376.8	3618.6	3738.4	3692.5	2741.7
57.5°	1424.9	1435.9	1535.6	1782.8	2158.8	2699.8	3444.3	3802.5	4053.7	4024.7	3019.8
60°	1081.7	1098.6	1201.7	1430.0	1835.9	2451.6	3450.6	3994.4	4430.6	4401.4	3330.2
62.5°	702.1	731.3	827.8	1041.7	1445.3	2094.7	3303.3	4119.9	4787.7	4777.4	3605.7
65°	403.5	425.5	492.6	657.7	997.1	1646.5	2953.1	4071.7	5007.6	5001.7	3708.8
66°	329.7	343.4	394.9	514.0	822.7	1445.9	2749.6	3969.9	5029.4	5029.6	3696.9
67.5°	263.7	269.8	292.9	368.0	607.1	1146.0	2385.8	3745.4	5002.3	5009.7	3620.5
70°	218.2	221.3	228.5	246.7	331.4	691.1	1693.5	3162.0	4730.4	4736.1	3322.4
72.5°	195.7	197.6	200.4	202.9	233.8	386.2	1034.3	2529.5	4147.4	4154.8	2868.1
75°	177.3	178.4	178.0	178.2	196.2	246.1	534.5	1888.6	3353.5	3338.7	2197.1
77.5°	155.7	156.8	154.7	155.1	173.5	189.2	266.0	1322.1	2263.1	2158.6	1237.9
80°	131.6	132.5	131.6	133.1	151.1	142.8	154.7	743.8	1000.7	946.5	440.1
82.5°	99.5	103.1	105.6	111.5	124.4	101.6	103.5	289.7	304.7	290.1	135.0
85°	43.6	53.1	79.6	85.3	93.5	60.9	67.9	118.1	124.0	120.2	49.1
87.5°	11.4	12.5	39.4	49.5	51.8	27.5	35.3	53.7	56.7	53.7	16.3
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°	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
2.5°	575.6	565.2	546.6	530.1	517.6	509.1	500.7	496.4	493.9	491.3	491.8
5°	594.0	573.0	541.1	518.4	505.7	497.7	493.5	491.8	490.7	488.2	488.2
7.5°	621.7	592.1	548.1	524.8	514.8	508.7	506.2	505.3	504.0	501.1	501.5
10°	656.6	615.1	562.7	540.0	530.9	524.1	520.5	519.3	516.9	513.6	514.0
12.5°	697.7	643.7	581.9	558.2	547.2	538.1	532.2	528.6	524.6	520.1	520.3
15°	742.5	674.8	602.6	574.5	559.5	546.8	537.3	531.1	524.8	519.3	519.1
17.5°	788.0	704.9	618.5	583.4	563.1	546.4	533.5	523.9	516.1	509.3	508.7
20°	837.1	731.9	627.4	582.5	556.3	536.4	519.3	507.4	498.7	492.0	490.9
22.5°	887.0	757.3	628.9	573.9	541.3	516.9	499.0	485.8	477.0	470.0	467.4
25°	932.7	777.0	622.7	557.2	520.3	494.1	476.5	463.2	456.0	447.8	445.2
27.5°	974.4	790.8	610.5	535.8	496.8	471.0	454.5	443.1	435.3	428.9	426.8
30°	1011.9	798.2	590.4	510.4	472.7	449.2	435.3	427.4	420.7	412.6	411.1
32.5°	1047.4	798.2	564.6	482.7	448.8	430.0	421.7	416.9	409.2	401.4	399.3
35°	1083.0	793.3	534.1	453.7	426.8	416.2	415.8	410.1	398.4	387.9	385.1
37.5°	1120.4	783.4	499.8	426.6	408.8	410.1	413.7	401.0	384.5	369.5	365.4
40°	1162.8	769.6	464.3	403.1	393.8	407.3	408.0	387.9	355.7	342.0	338.4
42.5°	1212.5	755.8	431.2	382.4	381.9	399.1	397.2	359.5	340.3	333.3	331.4
45°	1277.9	748.0	399.9	362.7	372.6	385.8	378.8	343.9	335.8	331.8	330.1
47.5°	1380.9	752.0	371.2	347.0	363.3	372.4	344.5	337.5	331.8	326.9	325.2
50°	1510.0	749.7	347.9	336.2	352.7	358.5	329.0	329.3	326.3	320.8	318.3
52.5°	1607.1	731.5	332.9	330.1	343.4	333.7	319.3	321.2	319.7	311.7	308.9
55°	1700.9	715.9	325.2	327.8	336.7	302.8	307.9	312.5	311.1	303.2	302.0
57.5°	1817.5	712.9	320.6	328.4	330.9	287.4	296.9	303.0	302.0	298.6	297.9
60°	1960.3	713.7	316.3	329.5	324.6	275.9	286.5	294.3	295.0	294.3	293.9
62.5°	2038.8	690.7	305.8	326.5	313.4	266.0	275.7	287.1	287.4	288.6	288.4
65°	1972.1	621.7	286.1	316.1	294.6	257.7	266.4	278.9	275.7	281.4	281.4
66°	1907.4	581.9	276.4	309.4	286.5	254.6	263.4	274.7	270.6	278.5	278.5
67.5°	1775.1	514.8	258.8	295.0	275.1	250.1	260.1	267.7	262.2	273.8	273.0
70°	1533.5	398.2	223.5	262.4	256.3	243.6	255.4	253.7	245.7	263.4	260.1
72.5°	1292.9	302.6	179.4	219.6	227.7	235.3	248.8	235.9	225.8	238.3	230.9
75°	1003.2	227.5	141.8	170.8	192.3	222.4	241.0	215.4	200.8	199.5	195.5
77.5°	542.3	156.2	112.4	130.3	152.8	206.3	235.7	193.4	171.4	166.3	163.1
80°	214.8	101.6	81.7	98.8	106.9	183.0	223.0	167.8	141.4	136.3	131.4
82.5°	88.7	60.1	52.7	66.2	69.6	156.6	200.2	137.5	109.2	151.1	160.4
85°	38.1	33.0	31.3	34.3	39.4	109.8	159.3	105.0	117.9	105.2	83.6
87.5°	11.4	14.0	13.3	13.1	14.4	26.2	84.9	58.4	86.5	32.8	24.5
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)