

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: P317595

Luminaire Tested: **GAN-SA1B-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317595
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-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4953 lumens
Efficiency: N/A
Efficacy: 112.6 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

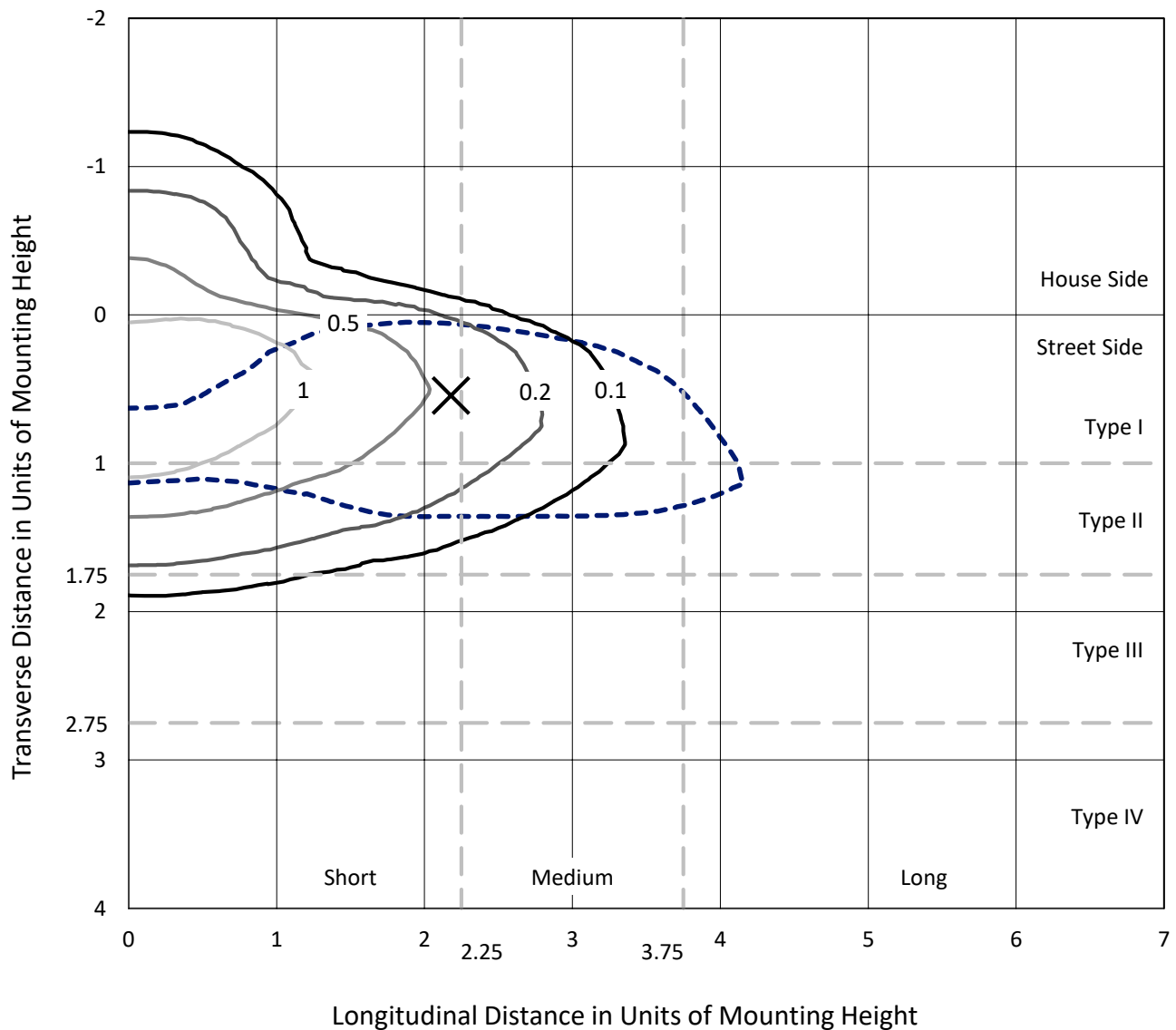
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

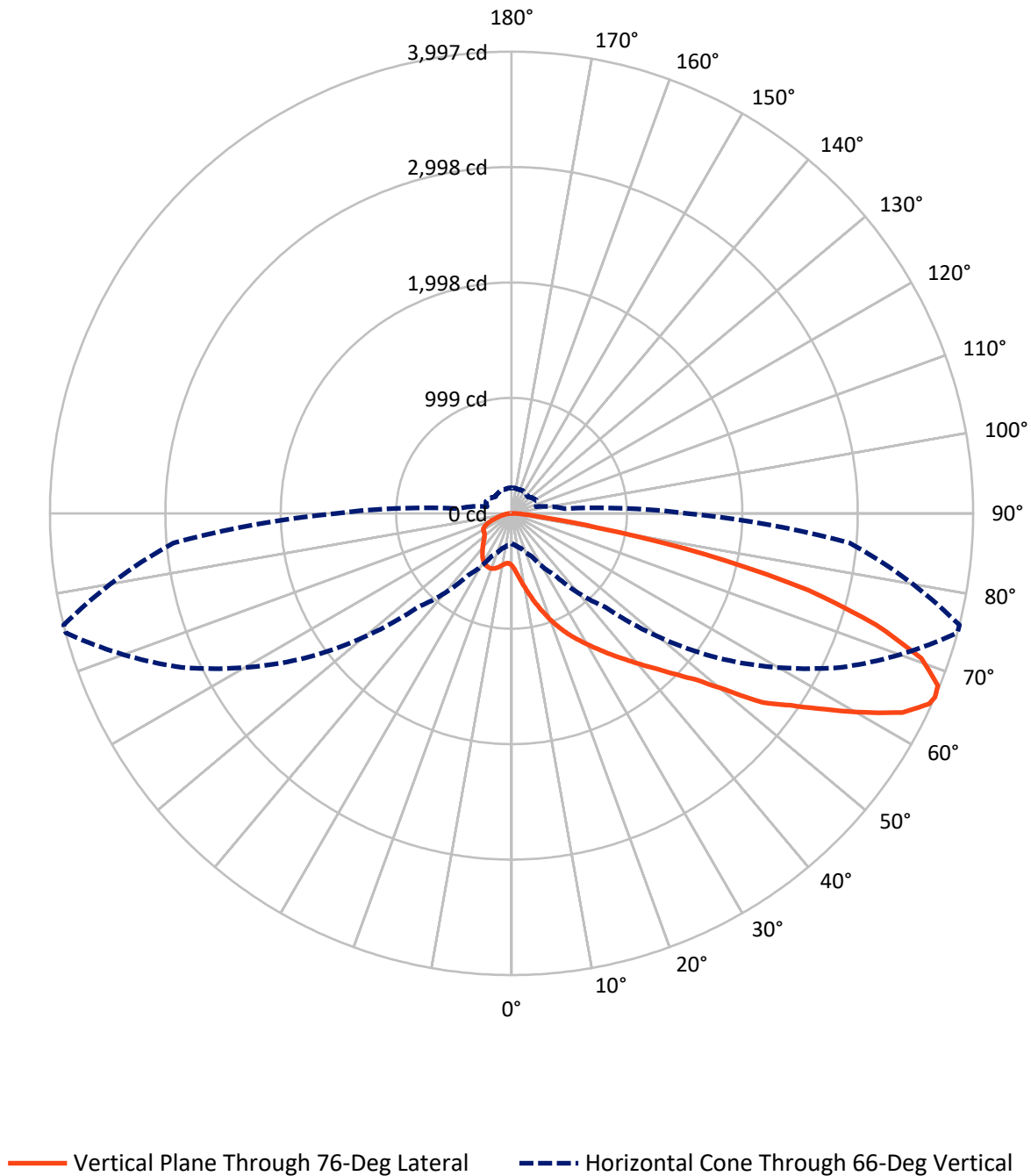
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	833.4	0.0	833.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	4119.6	0.0	4119.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	4953.0	0.0	4953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	1.1
10°-20°	216.0	4.4
20°-30°	419.7	8.5
30°-40°	685.1	13.8
40°-50°	936.0	18.9
50°-60°	1090.3	22.0
60°-70°	977.4	19.7
70°-80°	494.0	10.0
80°-90°	79.8	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°	4953.0	100.0
0°-180°	4953.0	100.0

Coefficient of Utilization



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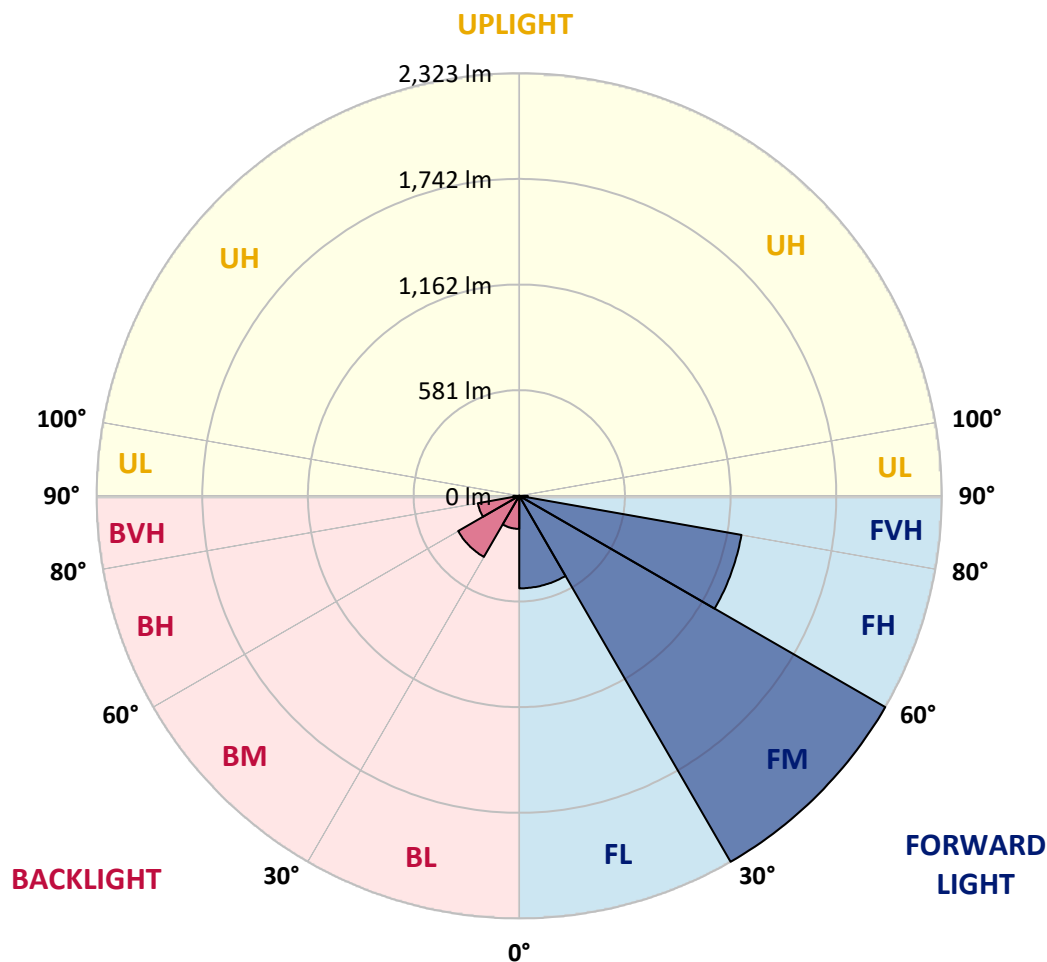
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	508.7	10.3			
FM	(30°-60°)	2323.3	46.9			
FH	(60°-80°)	1240.5	25.0			G1/1800
FVH	(80°-90°)	47.1	1.0			G1/100
BL	(0°-30°)	181.8	3.7	B1/500		
BM	(30°-60°)	388.1	7.8	B1/1000		
BH	(60°-80°)	230.9	4.7	B1/500		G1/500
BVH	(80°-90°)	32.7	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°	452.3	452.3	452.3	452.3	452.3	452.3	452.3	452.3	452.3	452.3	452.3
2.5°	600.5	591.4	590.5	577.3	574.2	548.8	530.2	510.7	488.5	484.1	466.6
5°	771.3	770.5	758.9	737.2	720.2	676.8	633.9	588.5	538.7	530.7	491.3
7.5°	925.0	923.6	914.7	891.4	866.8	813.5	752.3	682.7	602.0	590.0	524.8
10°	1041.7	1041.2	1038.2	1021.0	1000.1	949.0	881.4	786.4	675.5	659.1	566.7
12.5°	1131.8	1132.8	1134.8	1128.8	1118.9	1075.3	1006.0	896.4	753.8	737.7	613.2
15°	1192.8	1195.9	1206.3	1214.9	1220.1	1193.4	1126.3	1008.9	841.6	822.2	664.9
17.5°	1223.6	1227.0	1245.0	1270.9	1294.7	1292.1	1238.8	1116.2	925.8	907.2	720.3
20°	1250.2	1252.7	1272.9	1304.0	1346.2	1364.9	1334.9	1219.4	1018.1	995.9	779.2
22.5°	1327.2	1330.4	1336.4	1354.1	1391.4	1425.7	1411.3	1317.1	1102.7	1082.0	835.0
25°	1475.8	1479.7	1466.6	1451.6	1458.7	1482.6	1485.3	1406.2	1188.5	1165.1	895.1
27.5°	1654.9	1660.5	1638.1	1599.6	1566.0	1556.7	1553.5	1479.2	1270.4	1243.3	954.4
30°	1830.3	1839.9	1810.8	1760.9	1699.1	1655.8	1623.6	1550.7	1351.1	1325.2	1010.4
32.5°	2001.6	1997.8	1955.6	1906.8	1834.5	1780.2	1702.5	1627.3	1441.9	1412.1	1066.1
35°	2119.0	2120.4	2081.2	2023.3	1954.4	1912.7	1808.1	1710.1	1534.5	1507.1	1129.3
37.5°	2218.9	2212.7	2168.3	2114.3	2054.9	2037.1	1931.7	1801.2	1634.9	1605.0	1196.5
40°	2252.2	2245.0	2215.9	2177.0	2129.4	2127.9	2068.1	1904.5	1748.4	1718.8	1272.4
42.5°	2232.0	2222.8	2210.8	2200.2	2185.6	2192.3	2196.2	2025.5	1873.2	1840.1	1360.2
45°	2157.5	2143.6	2152.0	2175.0	2206.8	2244.8	2311.9	2159.5	2012.9	1985.2	1463.2
47.5°	2043.0	2030.4	2056.6	2105.9	2192.3	2288.5	2421.3	2307.5	2179.7	2152.1	1610.0
50°	1881.9	1885.6	1923.1	2012.7	2143.4	2308.7	2556.2	2503.4	2422.2	2396.5	1810.3
52.5°	1617.6	1618.3	1723.9	1871.0	2056.6	2298.3	2631.0	2753.8	2753.3	2722.2	2001.0
55°	1372.1	1387.1	1470.6	1666.2	1916.1	2256.6	2683.3	2875.5	2970.7	2934.2	2178.7
57.5°	1132.3	1141.1	1220.3	1416.7	1715.5	2145.4	2737.0	3021.6	3221.2	3198.2	2399.7
60°	859.6	873.0	954.9	1136.4	1458.9	1948.2	2742.0	3174.1	3520.7	3497.5	2646.3
62.5°	557.9	581.1	657.8	827.8	1148.5	1664.5	2625.0	3273.9	3804.5	3796.3	2865.3
65°	320.7	338.1	391.5	522.6	792.3	1308.4	2346.7	3235.5	3979.2	3974.5	2947.1
66°	262.0	272.9	313.8	408.4	653.8	1149.0	2184.9	3154.6	3996.6	3996.7	2937.7
67.5°	209.5	214.4	232.7	292.4	482.4	910.7	1895.9	2976.2	3975.0	3980.9	2877.0
70°	173.4	175.9	181.6	196.1	263.3	549.2	1345.7	2512.6	3759.0	3763.5	2640.1
72.5°	155.5	157.1	159.2	161.3	185.8	306.9	821.9	2010.1	3295.7	3301.6	2279.1
75°	140.9	141.7	141.4	141.6	155.9	195.6	424.7	1500.7	2664.8	2653.1	1745.9
77.5°	123.8	124.6	122.9	123.3	137.9	150.3	211.4	1050.6	1798.4	1715.3	983.7
80°	104.6	105.3	104.6	105.8	120.1	113.5	122.9	591.0	795.2	752.1	349.7
82.5°	79.0	81.9	83.9	88.6	98.9	80.7	82.2	230.2	242.1	230.5	107.3
85°	34.6	42.2	63.2	67.8	74.3	48.4	54.0	93.8	98.5	95.5	39.0
87.5°	9.1	9.9	31.3	39.3	41.2	21.9	28.1	42.7	45.1	42.7	12.9
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°	452.3	452.3	452.3	452.3	452.3	452.3	452.3	452.3	452.3	452.3	452.3
2.5°	457.4	449.1	434.3	421.2	411.3	404.6	397.8	394.5	392.5	390.4	390.8
5°	472.0	455.3	430.0	412.0	401.9	395.5	392.1	390.8	389.9	387.9	387.9
7.5°	494.0	470.5	435.5	417.0	409.1	404.2	402.2	401.5	400.5	398.2	398.5
10°	521.8	488.8	447.1	429.1	421.9	416.5	413.6	412.6	410.8	408.1	408.4
12.5°	554.4	511.5	462.4	443.6	434.8	427.6	422.9	420.0	416.8	413.3	413.5
15°	590.0	536.2	478.9	456.5	444.6	434.5	426.9	422.1	417.0	412.6	412.5
17.5°	626.2	560.1	491.5	463.6	447.4	434.2	423.9	416.3	410.1	404.7	404.2
20°	665.2	581.6	498.6	462.9	442.1	426.3	412.6	403.2	396.3	390.9	390.1
22.5°	704.9	601.8	499.7	456.0	430.1	410.8	396.5	386.1	379.0	373.5	371.4
25°	741.2	617.4	494.9	442.7	413.5	392.6	378.7	368.1	362.4	355.8	353.8
27.5°	774.3	628.4	485.1	425.8	394.8	374.3	361.2	352.1	345.9	340.8	339.2
30°	804.1	634.3	469.1	405.6	375.6	357.0	345.9	339.7	334.3	327.9	326.7
32.5°	832.3	634.3	448.6	383.5	356.6	341.7	335.1	331.3	325.2	319.0	317.3
35°	860.6	630.4	424.4	360.5	339.2	330.7	330.4	325.9	316.6	308.2	306.0
37.5°	890.3	622.5	397.2	339.0	324.9	325.9	328.7	318.6	305.5	293.6	290.4
40°	924.0	611.6	368.9	320.3	312.9	323.7	324.2	308.2	282.7	271.7	268.9
42.5°	963.5	600.6	342.7	303.8	303.5	317.1	315.6	285.7	270.4	264.8	263.3
45°	1015.5	594.4	317.8	288.2	296.1	306.5	301.0	273.2	266.9	263.7	262.3
47.5°	1097.3	597.6	294.9	275.8	288.7	295.9	273.7	268.2	263.7	259.8	258.4
50°	1199.9	595.8	276.4	267.2	280.3	284.8	261.5	261.6	259.3	254.9	252.9
52.5°	1277.1	581.3	264.5	262.3	272.9	265.2	253.7	255.3	254.1	247.7	245.5
55°	1351.6	568.8	258.4	260.5	267.5	240.6	244.7	248.4	247.2	241.0	239.9
57.5°	1444.2	566.5	254.7	261.0	263.0	228.3	235.9	240.8	239.9	237.3	236.8
60°	1557.7	567.2	251.4	261.8	257.9	219.3	227.7	233.9	234.4	233.9	233.6
62.5°	1620.1	548.8	243.0	259.5	249.0	211.4	219.1	228.2	228.3	229.4	229.2
65°	1567.1	494.0	227.3	251.2	234.1	204.8	211.7	221.6	219.1	223.6	223.6
66°	1515.7	462.4	219.6	245.8	227.7	202.3	209.3	218.3	215.1	221.3	221.3
67.5°	1410.6	409.1	205.6	234.4	218.6	198.8	206.7	212.7	208.3	217.6	216.9
70°	1218.6	316.5	177.6	208.5	203.6	193.5	203.0	201.6	195.2	209.3	206.7
72.5°	1027.4	240.5	142.6	174.5	180.9	187.0	197.7	187.5	179.4	189.3	183.5
75°	797.2	180.8	112.7	135.7	152.8	176.7	191.5	171.2	159.6	158.6	155.4
77.5°	431.0	124.1	89.3	103.6	121.4	163.9	187.3	153.7	136.2	132.2	129.6
80°	170.7	80.7	64.9	78.5	84.9	145.4	177.2	133.3	112.3	108.3	104.4
82.5°	70.5	47.8	41.9	52.6	55.3	124.4	159.1	109.3	86.8	120.1	127.5
85°	30.3	26.2	24.9	27.2	31.3	87.3	126.6	83.4	93.7	83.6	66.4
87.5°	9.1	11.1	10.6	10.4	11.4	20.9	67.4	46.4	68.8	26.1	19.5
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)