

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: P321065

Luminaire Tested: **GAN-SA1A-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321065
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-SA1A-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3681 lumens
Efficiency: N/A
Efficacy: 108.3 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

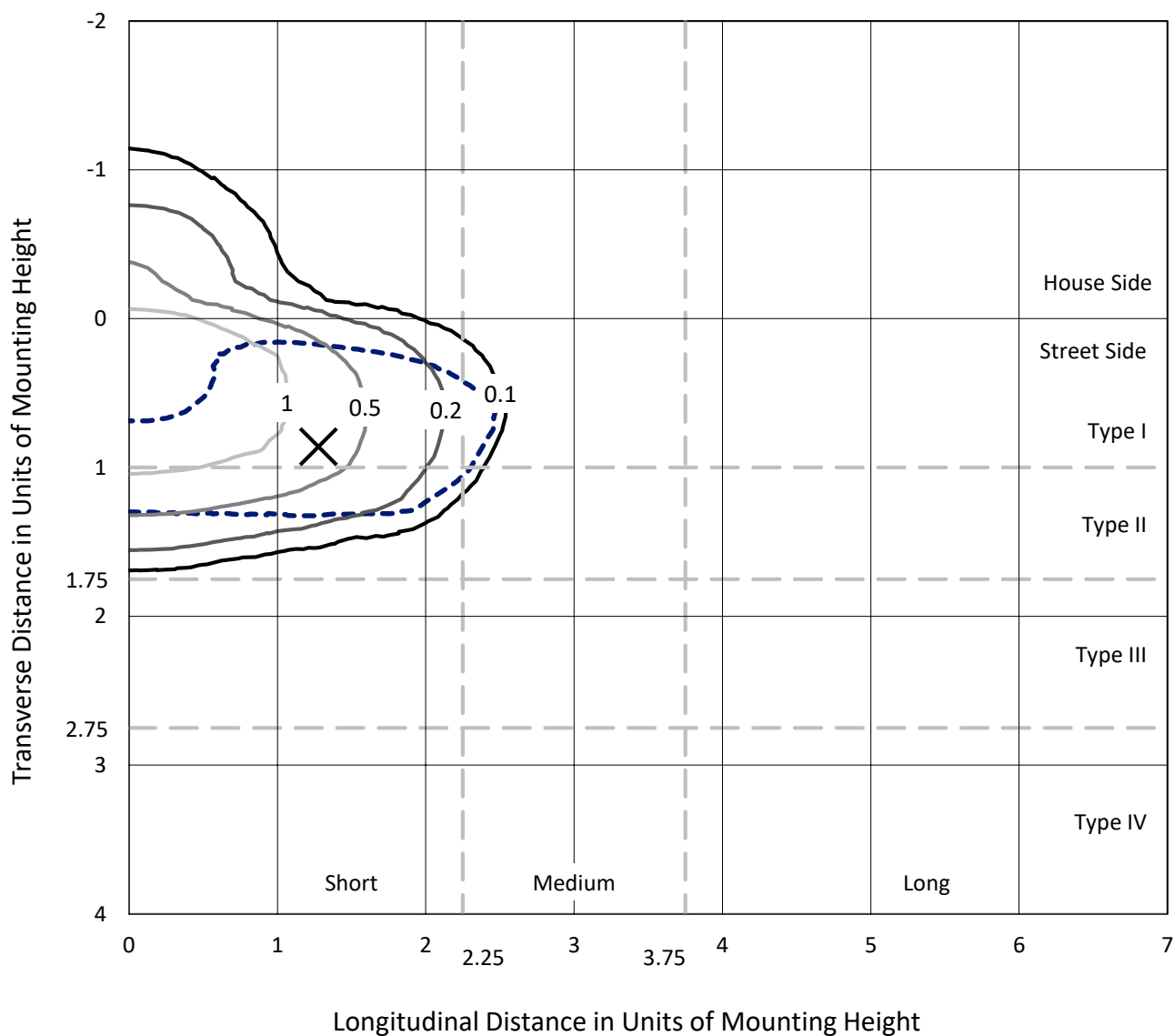
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

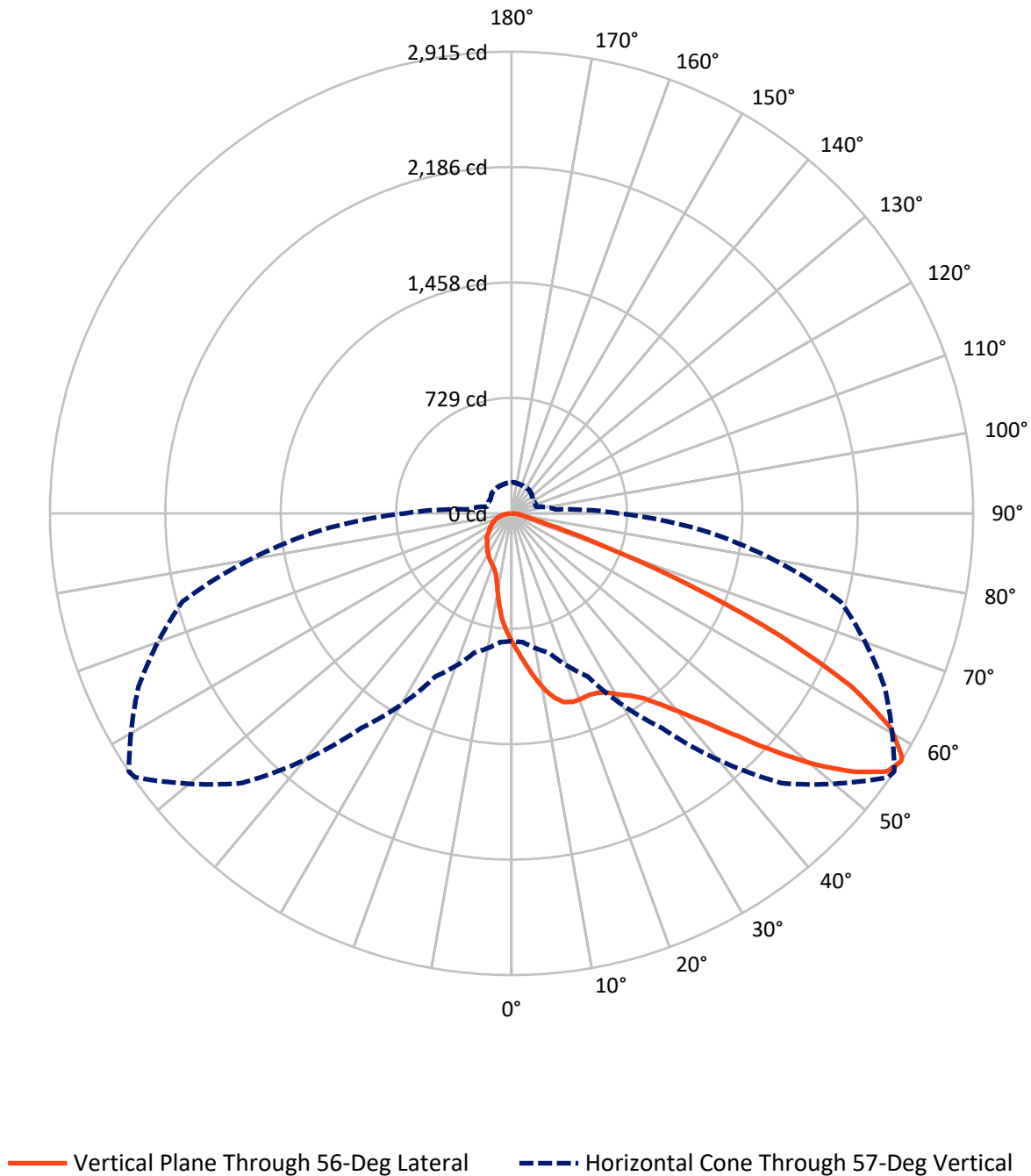
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	634.5	0.0	634.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3046.5	0.0	3046.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	3681.0	0.0	3681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	2.1
10°-20°	220.5	6.0
20°-30°	359.2	9.8
30°-40°	536.9	14.6
40°-50°	814.4	22.1
50°-60°	912.7	24.8
60°-70°	539.1	14.6
70°-80°	176.6	4.8
80°-90°	43.6	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°	3681.0	100.0
0°-180°	3681.0	100.0

Coefficient of Utilization



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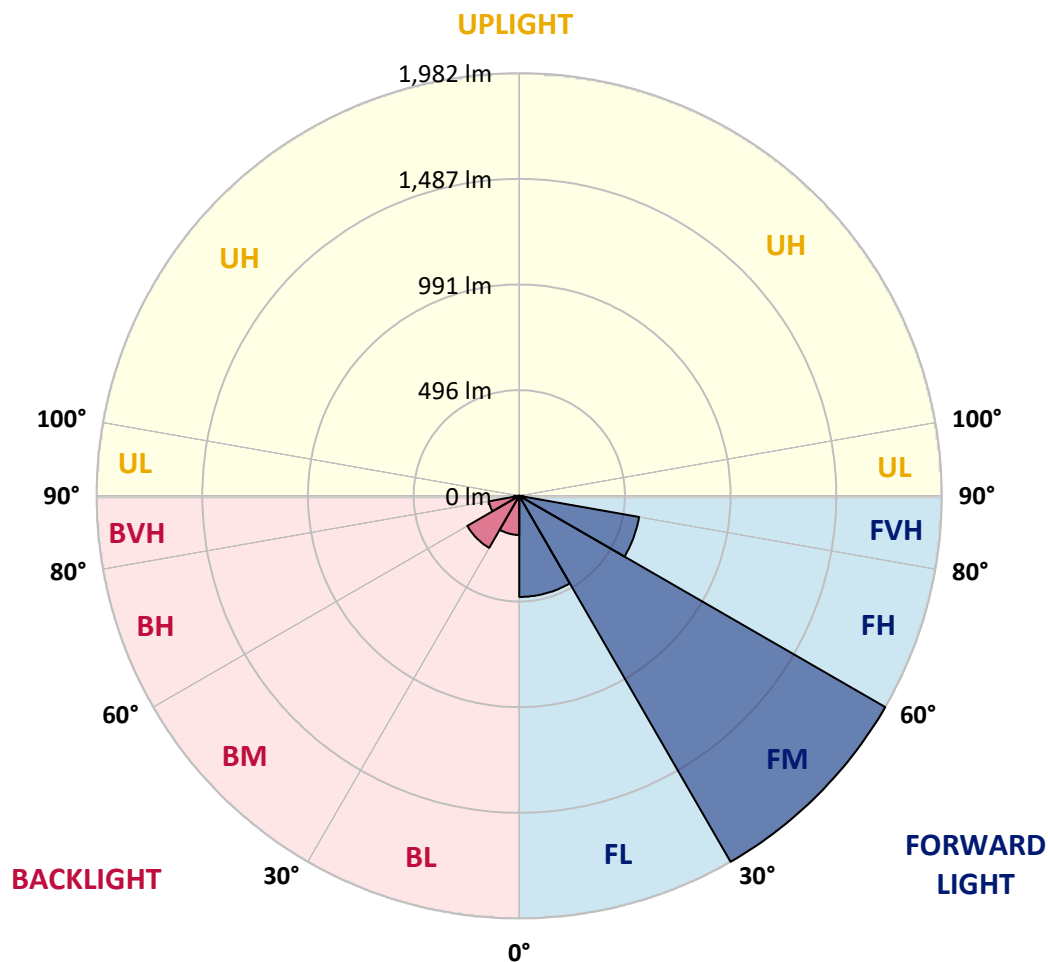
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	474.2	12.9			
FM	(30°-60°)	1982.3	53.9			
FH	(60°-80°)	570.8	15.5			G0/660
FVH	(80°-90°)	19.2	0.5			G1/100
BL	(0°-30°)	183.5	5.0	B1/500		
BM	(30°-60°)	281.6	7.7	B1/1000		
BH	(60°-80°)	145.0	3.9	B1/500		G1/500
BVH	(80°-90°)	24.4	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°	816.4	816.4	816.4	816.4	816.4	816.4	816.4	816.4	816.4	816.4	816.4
2.5°	937.5	946.1	942.3	929.2	919.0	904.7	888.8	884.0	867.2	848.3	825.7
5°	1085.9	1081.6	1075.4	1054.9	1033.3	1008.1	968.1	961.8	924.4	881.7	836.7
7.5°	1170.4	1170.0	1166.4	1154.3	1134.6	1101.7	1053.5	1046.1	989.5	920.9	851.1
10°	1158.1	1157.2	1163.3	1175.8	1181.8	1175.0	1134.4	1126.9	1057.4	964.3	867.8
12.5°	1088.4	1088.9	1098.7	1125.0	1160.8	1203.8	1197.2	1193.6	1127.9	1013.4	888.0
15°	1034.2	1035.3	1043.0	1065.9	1108.2	1186.2	1235.4	1236.7	1196.1	1067.6	911.7
17.5°	1010.4	1012.8	1016.3	1032.4	1071.1	1151.2	1244.5	1251.4	1255.8	1123.7	934.5
20°	1018.0	1020.2	1021.3	1031.5	1063.3	1129.9	1238.2	1250.5	1301.6	1176.6	957.2
22.5°	1052.0	1053.4	1054.0	1056.7	1081.3	1136.0	1234.0	1246.9	1334.7	1224.0	974.5
25°	1108.4	1107.4	1103.4	1099.9	1116.5	1160.0	1243.6	1255.9	1361.7	1267.1	985.7
27.5°	1176.0	1174.7	1166.9	1157.5	1167.0	1197.5	1271.4	1281.1	1385.8	1307.3	991.4
30°	1257.1	1253.8	1239.0	1227.8	1231.5	1253.6	1317.0	1325.9	1423.2	1352.9	997.0
32.5°	1350.8	1347.3	1325.9	1307.4	1307.4	1325.9	1364.1	1371.4	1454.8	1404.6	1006.0
35°	1468.2	1463.8	1435.9	1404.9	1396.2	1405.6	1428.2	1433.4	1511.7	1469.6	1022.3
37.5°	1606.6	1600.6	1564.6	1523.1	1504.0	1503.5	1519.8	1530.4	1602.7	1555.0	1050.0
40°	1745.4	1741.2	1709.7	1677.0	1639.6	1627.6	1652.8	1656.0	1721.6	1661.0	1085.4
42.5°	1852.6	1851.9	1846.1	1850.4	1812.0	1787.7	1807.5	1810.1	1866.8	1775.7	1123.1
45°	1909.3	1910.6	1938.8	2001.3	2015.4	1997.7	2007.5	2008.2	2032.8	1891.5	1157.6
47.5°	1863.9	1870.5	1941.8	2081.6	2197.6	2256.4	2240.2	2249.6	2193.7	1990.9	1184.7
50°	1686.9	1695.0	1816.5	2045.8	2282.6	2506.8	2498.3	2496.2	2323.5	2063.8	1199.4
52.5°	1467.7	1474.0	1574.2	1859.7	2220.3	2645.2	2723.0	2711.8	2438.8	2118.3	1202.2
55°	1133.8	1143.7	1239.7	1488.3	1968.0	2592.3	2888.2	2878.2	2544.0	2146.9	1198.9
57°	806.1	816.4	911.8	1135.9	1655.5	2409.2	2904.6	2915.3	2600.8	2151.7	1202.5
57.5°	719.3	729.9	824.4	1042.0	1558.1	2343.1	2890.5	2908.2	2611.0	2150.9	1204.6
60°	362.2	366.2	426.4	581.7	985.0	1894.3	2705.6	2751.3	2620.3	2113.7	1213.3
62.5°	225.2	222.3	220.4	267.9	479.2	1256.2	2324.2	2412.2	2443.5	2023.7	1192.2
65°	198.0	192.5	171.7	167.9	211.6	610.1	1750.3	1859.7	2065.9	1881.7	1141.8
67.5°	186.0	180.6	157.1	142.9	143.1	241.9	1086.7	1209.9	1609.4	1641.8	1023.0
70°	173.6	168.8	146.7	130.0	121.8	134.0	499.9	593.4	1049.1	1290.5	855.0
72.5°	157.6	154.3	133.5	116.3	107.5	100.3	191.4	226.1	607.3	866.7	593.8
75°	140.9	137.9	120.1	103.6	93.0	78.9	107.8	116.1	308.5	443.4	292.3
77.5°	122.6	120.8	106.8	91.6	83.1	65.4	76.3	80.3	132.3	190.1	146.6
80°	97.5	100.9	93.4	81.6	73.8	52.4	54.0	56.7	77.0	92.9	83.2
82.5°	63.5	69.5	73.1	66.3	60.7	41.2	38.8	40.0	50.2	56.7	36.2
85°	26.4	29.7	48.1	43.4	40.4	30.1	26.1	26.6	31.1	32.3	14.8
87.5°	11.8	12.5	21.1	19.9	17.1	10.4	11.1	12.1	16.6	15.7	5.7
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°	816.4	816.4	816.4	816.4	816.4	816.4	816.4	816.4	816.4	816.4	816.4
2.5°	817.2	806.6	788.4	768.3	751.8	738.6	725.4	716.3	705.6	699.9	697.0
5°	817.8	797.0	758.6	719.3	684.1	652.0	621.4	597.9	575.8	563.9	560.7
7.5°	820.5	789.1	727.1	662.4	599.9	542.8	498.8	471.2	451.4	442.5	440.0
10°	822.6	779.9	688.2	592.3	507.3	449.5	415.3	399.9	393.0	391.9	390.8
12.5°	827.7	770.4	647.2	519.2	435.3	395.3	383.4	382.4	384.3	387.1	387.1
15°	835.7	761.0	600.4	456.4	389.5	375.5	377.9	383.4	388.6	392.9	393.6
17.5°	841.5	749.5	550.0	406.2	365.1	368.9	377.5	385.3	390.6	394.8	395.2
20°	845.7	731.7	496.3	367.9	351.0	362.8	373.6	380.5	384.2	388.4	389.0
22.5°	843.5	707.8	448.6	340.4	339.7	354.0	364.2	372.6	369.8	365.7	368.4
25°	833.1	674.9	399.5	319.9	327.6	342.1	354.7	349.1	339.8	338.0	339.0
27.5°	814.7	632.9	354.1	301.0	313.7	331.1	330.3	324.7	321.4	319.2	320.6
30°	794.8	587.4	314.4	284.4	298.3	312.6	309.7	309.6	306.3	302.6	304.4
32.5°	775.2	541.6	282.9	270.7	286.7	288.6	294.9	296.8	290.3	282.6	282.1
35°	758.1	498.3	259.0	258.3	272.6	272.9	282.1	279.4	263.4	255.4	255.4
37.5°	745.4	455.2	240.7	247.2	254.1	260.7	265.4	254.4	251.7	247.3	247.2
40°	739.8	417.2	229.3	238.7	241.1	249.5	237.4	241.7	243.0	240.7	240.7
42.5°	734.0	384.2	219.5	232.3	231.9	230.7	224.7	230.2	235.3	235.4	235.0
45°	728.2	355.7	210.8	218.5	223.8	211.5	212.7	218.6	225.7	228.2	228.2
47.5°	721.7	333.2	202.8	203.9	212.1	203.9	203.0	207.6	215.9	220.0	220.9
50°	707.5	313.0	193.7	191.1	193.4	196.2	197.0	199.1	208.4	214.8	216.3
52.5°	687.9	294.9	182.0	179.4	179.4	189.9	193.4	194.1	201.9	209.6	211.1
55°	671.6	283.4	170.0	169.5	169.0	183.2	189.2	190.3	195.7	201.8	202.5
57°	672.7	282.5	160.8	161.3	161.2	176.3	185.3	187.5	190.3	195.4	196.3
57.5°	673.4	283.1	158.8	159.0	158.9	174.4	184.2	186.6	188.7	194.2	195.1
60°	682.9	284.8	150.5	147.8	148.4	164.3	177.7	180.8	182.2	189.4	190.5
62.5°	668.8	277.4	144.0	137.3	137.3	153.7	168.8	173.6	175.7	185.5	187.4
65°	628.1	256.8	136.2	125.4	126.6	143.1	158.0	165.8	169.1	181.3	183.3
67.5°	565.2	232.9	128.0	114.7	116.0	131.9	146.9	155.3	160.5	176.7	178.4
70°	483.4	203.7	116.9	103.5	105.0	119.8	133.7	143.3	151.0	172.4	172.9
72.5°	356.4	167.0	101.3	91.1	92.7	105.6	120.4	131.6	141.9	161.7	161.4
75°	211.9	130.6	84.1	78.6	79.7	91.7	108.4	121.9	137.5	157.5	159.9
77.5°	128.5	98.3	68.6	65.8	67.2	79.4	99.8	114.2	135.6	148.5	147.8
80°	77.7	70.2	54.8	53.0	54.4	67.9	92.3	108.4	118.5	126.9	126.9
82.5°	40.6	42.9	40.2	38.8	40.7	55.2	84.0	94.6	104.7	89.9	84.0
85°	16.6	22.4	24.4	24.3	25.4	38.2	72.5	81.0	67.6	64.1	65.7
87.5°	5.6	9.5	11.9	10.2	10.8	24.0	50.2	39.1	46.4	32.4	30.7
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)