

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: P526994

Luminaire Tested: **GLAN-SA2A-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6758 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

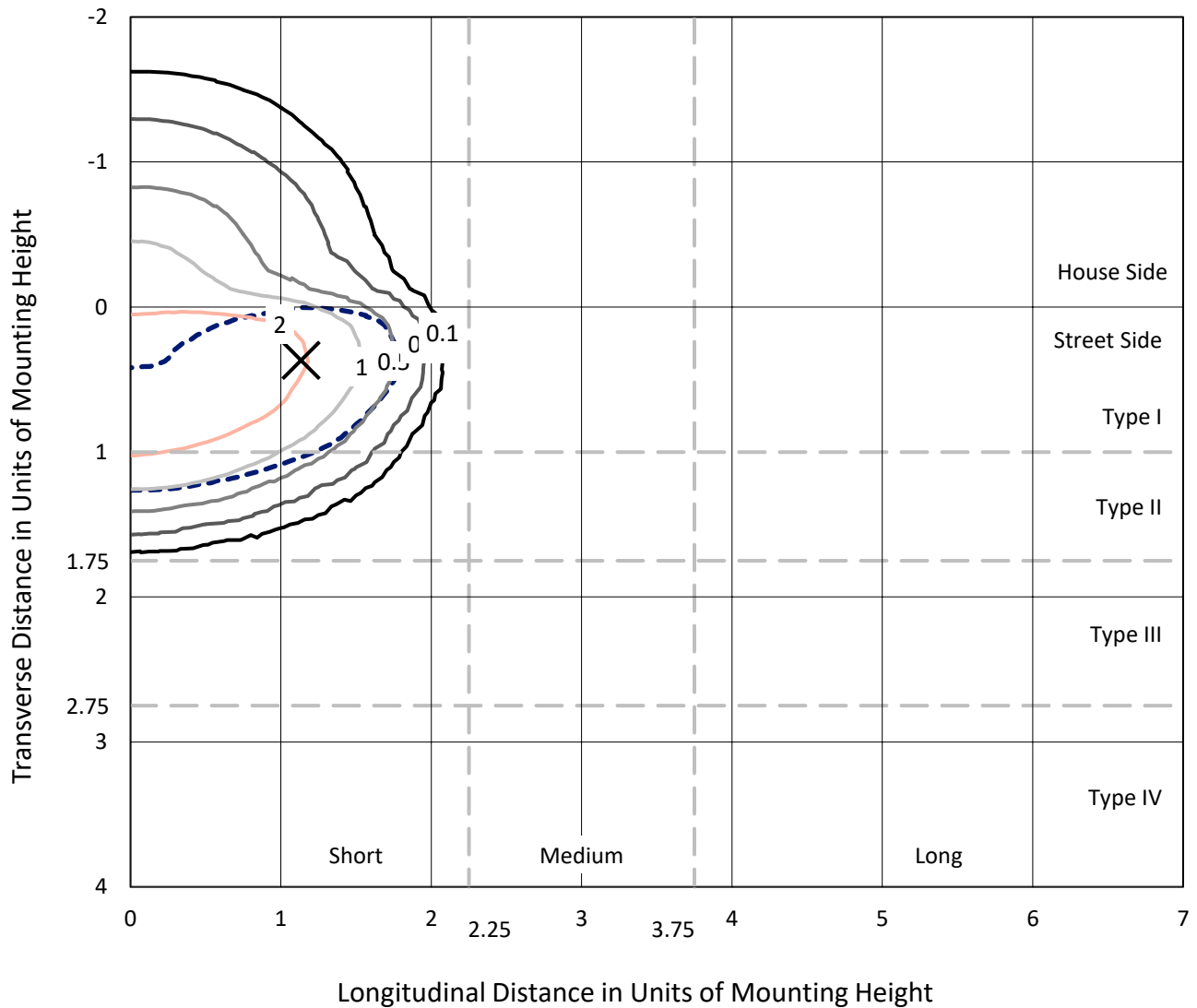
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

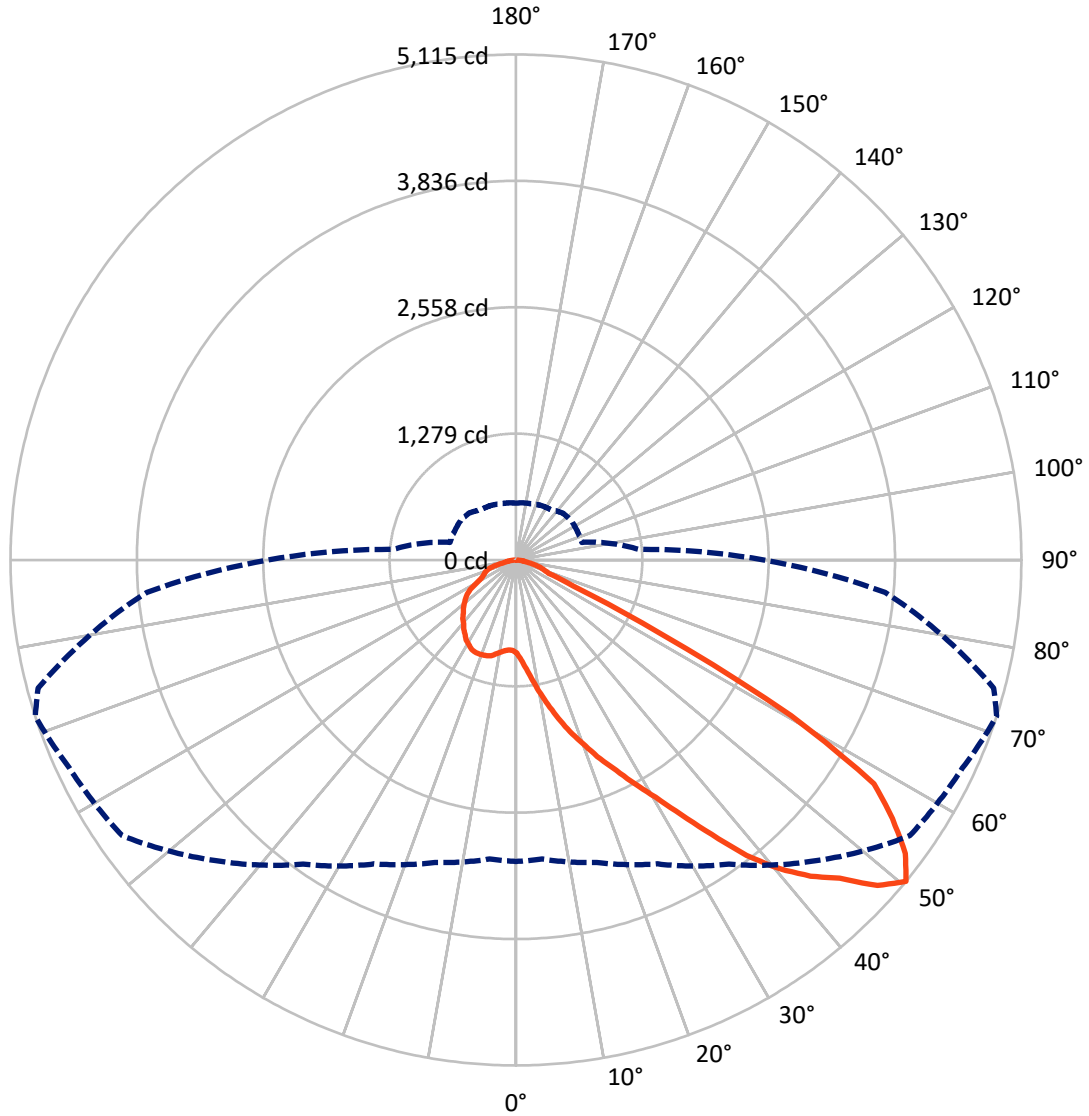
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1548.3	0.0	1548.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5209.7	0.0	5209.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	6758.0	0.0	6758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	1.6
10°-20°	413.7	6.1
20°-30°	802.1	11.9
30°-40°	1328.8	19.7
40°-50°	1859.3	27.5
50°-60°	1568.5	23.2
60°-70°	478.1	7.1
70°-80°	167.7	2.5
80°-90°	29.2	0.4
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°	6758.0	100.0
0°-180°	6758.0	100.0

Coefficient of Utilization

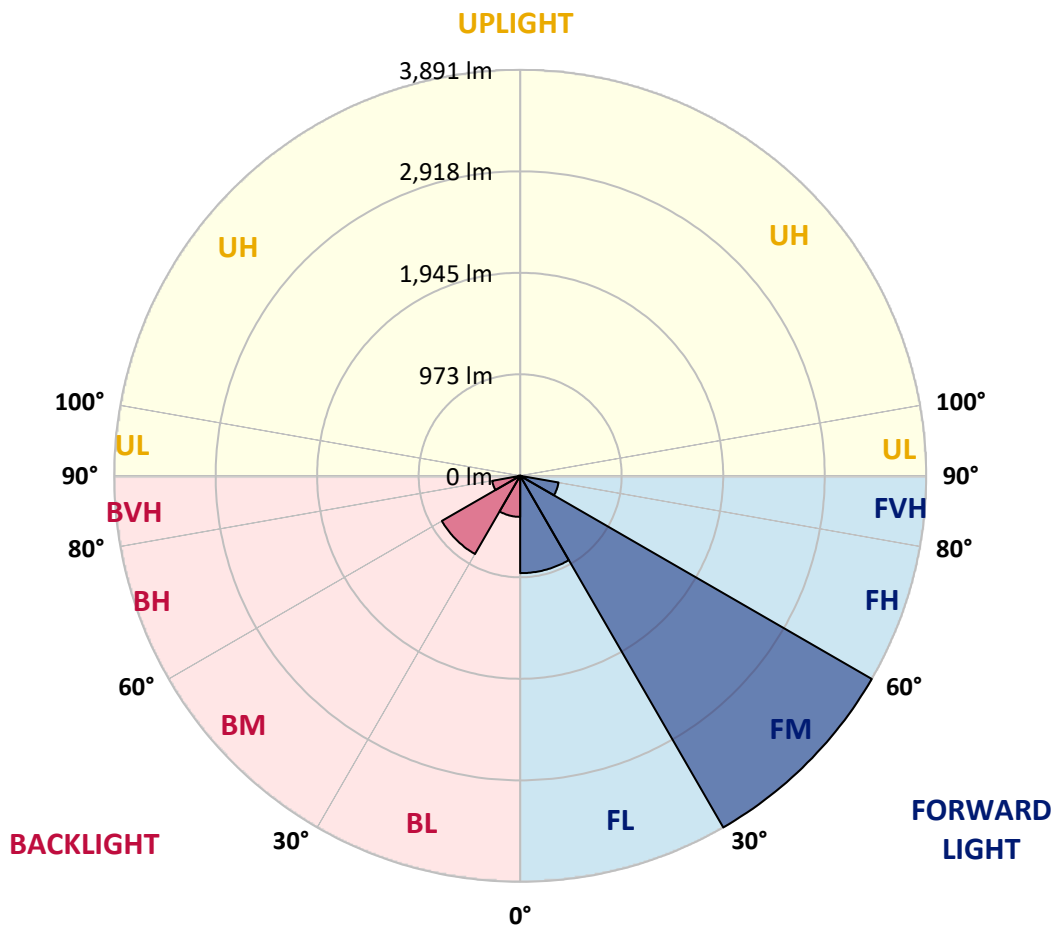


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.8	13.8			
FM (30°-60°)	3890.8	57.6			
FH (60°-80°)	373.0	5.5			G0/660
FVH (80°-90°)	13.1	0.2			G1/100
BL (0°-30°)	393.6	5.8	B1/500		
BM (30°-60°)	865.8	12.8	B1/1000		
BH (60°-80°)	272.8	4.0	B1/500		G1/500
BVH (80°-90°)	16.1	0.2			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°	72°	75°	85°
0°	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8
2.5°	1210.0	1202.5	1179.9	1172.4	1145.7	1097.1	1080.4	1031.1	1010.2	990.9	968.4
5°	1530.3	1495.2	1492.7	1450.0	1388.2	1352.2	1245.2	1173.2	1107.2	1073.7	1011.9
7.5°	1734.4	1735.2	1735.2	1700.1	1650.7	1559.6	1463.4	1333.8	1234.3	1185.0	1079.6
10°	1928.4	1911.6	1902.4	1899.1	1865.7	1777.0	1674.2	1513.6	1377.3	1319.6	1130.6
12.5°	2065.5	2051.3	2072.2	2061.3	2037.1	1979.4	1882.4	1699.2	1528.6	1450.9	1212.5
15°	2130.7	2140.8	2157.5	2187.6	2176.7	2155.0	2048.0	1889.9	1691.7	1603.9	1285.3
17.5°	2231.1	2203.5	2223.6	2261.2	2291.3	2281.3	2220.2	2027.9	1853.1	1745.2	1383.1
20°	2301.3	2285.4	2295.5	2339.0	2361.5	2418.4	2386.6	2208.5	2007.8	1894.1	1498.5
22.5°	2502.0	2478.6	2446.0	2452.7	2461.1	2501.2	2508.7	2406.7	2187.6	2067.2	1608.1
25°	2749.6	2727.8	2689.4	2650.0	2625.8	2618.3	2644.2	2562.2	2359.9	2235.3	1726.0
27.5°	3022.2	2985.4	2961.1	2880.0	2814.8	2804.8	2792.2	2747.9	2563.9	2429.3	1859.0
30°	3287.3	3258.0	3225.4	3095.8	3028.0	3017.2	2955.3	2967.8	2785.5	2635.8	2009.5
32.5°	3488.0	3490.5	3416.0	3318.2	3254.7	3196.9	3174.4	3210.3	3069.8	2949.4	2177.6
35°	3650.2	3657.7	3586.6	3498.0	3429.4	3469.6	3459.5	3476.3	3409.4	3262.2	2373.3
37.5°	3808.2	3770.6	3694.5	3651.9	3615.9	3682.0	3767.3	3781.5	3794.0	3620.9	2600.7
40°	3834.2	3837.5	3793.2	3823.3	3778.1	3877.6	4075.8	4057.4	4108.5	3957.1	2847.4
42.5°	3797.4	3804.9	3822.5	3865.1	3973.8	4093.4	4387.8	4312.5	4374.4	4239.7	3087.4
45°	3737.2	3706.2	3728.0	3890.2	4078.3	4344.3	4672.9	4614.4	4594.3	4481.4	3373.4
47.5°	3449.5	3481.3	3549.0	3748.9	4031.5	4387.8	4875.3	4861.9	4922.1	4842.7	3633.5
50°	3050.6	3038.1	3168.5	3393.5	3758.1	4302.5	4864.4	4985.7	5115.3	5004.9	3749.7
52.5°	2284.6	2351.5	2463.6	2742.9	3263.0	3837.5	4626.9	4829.3	4934.7	4911.2	3656.0
55°	1444.2	1464.3	1532.0	1864.0	2332.3	3079.9	3966.3	4435.4	4623.6	4711.4	3569.9
57.5°	701.6	664.0	746.8	1013.5	1347.2	2071.4	3059.0	3863.4	4272.4	4431.2	3382.6
60°	366.3	380.5	413.1	508.4	696.6	1075.4	1906.6	2574.8	3199.5	3443.6	2563.9
62.5°	303.6	308.6	330.3	378.0	463.3	618.8	973.4	1255.2	1631.5	1851.4	1458.4
65°	257.6	260.1	283.5	315.3	369.6	435.7	500.9	524.3	634.7	651.4	518.5
67.5°	214.9	217.4	242.5	272.6	307.7	325.3	342.0	340.4	352.9	347.9	347.0
70°	165.6	168.1	194.0	225.8	243.3	233.3	285.2	296.9	301.9	306.1	312.8
72.5°	119.6	124.6	144.7	167.2	158.0	181.5	235.0	252.5	259.2	261.7	270.1
75°	87.0	88.6	93.7	87.0	100.3	126.3	165.6	187.3	195.7	198.2	210.7
77.5°	38.5	39.3	40.1	50.2	64.4	78.6	98.7	116.2	127.9	131.3	134.6
80°	20.1	20.9	25.9	34.3	46.0	57.7	71.9	82.0	89.5	90.3	93.7
82.5°	12.5	13.4	18.4	24.3	32.6	42.6	52.7	61.0	66.9	67.7	68.6
85°	5.9	7.5	10.9	15.1	21.7	27.6	28.4	24.3	25.9	26.8	25.1
87.5°	1.7	2.5	3.3	2.5	3.3	3.3	4.2	5.0	5.0	5.0	5.9
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°	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8
2.5°	955.8	948.3	919.0	908.2	879.7	884.7	869.7	868.9	865.5	864.7	863.8
5°	979.2	955.8	920.7	893.9	878.1	876.4	865.5	865.5	868.9	871.4	865.5
7.5°	1017.7	990.9	931.6	906.5	892.3	889.8	882.2	876.4	883.9	881.4	874.7
10°	1062.0	1015.2	952.5	930.7	907.3	901.5	901.5	904.0	891.4	895.6	888.9
12.5°	1111.4	1048.6	979.2	954.2	926.6	923.2	921.5	903.1	909.8	906.5	889.8
15°	1174.1	1087.1	1013.5	970.9	947.5	932.4	910.7	907.3	903.1	894.8	887.3
17.5°	1241.8	1128.9	1029.4	975.9	940.8	929.9	913.2	895.6	883.1	884.7	878.9
20°	1299.5	1167.4	1035.3	980.9	935.8	914.8	888.9	878.1	864.7	863.8	863.0
22.5°	1368.1	1219.2	1043.6	967.5	920.7	899.0	881.4	862.2	853.0	841.3	847.1
25°	1450.0	1239.3	1045.3	960.0	909.8	871.4	862.2	841.3	837.9	821.2	824.5
27.5°	1509.4	1250.2	1031.9	936.6	884.7	855.5	838.7	823.7	817.8	805.3	802.0
30°	1588.9	1266.9	1003.5	907.3	859.7	827.0	817.0	813.7	796.9	783.6	781.9
32.5°	1679.2	1277.8	985.1	877.2	833.7	808.6	813.7	797.8	776.9	765.2	761.8
35°	1751.1	1282.0	939.1	842.9	816.2	800.3	794.4	791.1	761.0	750.1	741.7
37.5°	1860.6	1272.8	900.6	818.7	796.9	791.1	786.1	763.5	729.2	713.3	701.6
40°	1988.6	1270.3	851.3	784.4	778.5	785.2	770.2	735.1	687.4	669.8	661.5
42.5°	2111.5	1287.8	820.4	766.0	758.5	761.0	740.1	687.4	664.0	653.9	640.6
45°	2317.2	1324.6	769.3	737.6	734.2	732.5	707.5	652.3	638.9	626.3	623.8
47.5°	2502.9	1300.4	736.7	708.3	711.6	702.4	648.9	631.4	616.3	603.8	599.6
50°	2513.7	1242.7	690.7	685.7	686.6	670.7	619.7	607.9	588.7	580.4	574.5
52.5°	2456.9	1148.2	648.1	649.8	652.3	626.3	583.7	575.3	559.4	547.7	544.4
55°	2297.2	1001.0	606.3	613.0	619.7	570.3	556.9	536.0	523.5	506.8	507.6
57.5°	2023.7	806.1	547.7	558.6	572.8	518.5	508.4	482.5	464.1	450.7	449.1
60°	1356.4	573.7	459.9	464.1	495.9	474.1	473.3	447.4	422.3	410.6	403.9
62.5°	800.3	438.2	397.2	393.0	392.2	404.7	425.6	416.4	383.8	361.3	367.9
65°	419.0	378.8	369.6	355.4	347.0	343.7	359.6	363.8	342.0	317.8	316.1
67.5°	352.1	352.1	344.5	339.5	327.8	313.6	303.6	290.2	286.8	280.1	271.8
70°	320.3	328.6	326.1	314.4	304.4	288.5	262.6	240.8	219.9	212.4	217.4
72.5°	279.3	287.7	287.7	281.8	268.4	244.2	219.1	194.0	176.4	163.1	161.4
75°	214.9	219.1	229.1	222.4	204.9	189.8	163.9	138.0	121.3	108.7	106.2
77.5°	137.1	143.8	143.8	143.0	130.5	116.2	99.5	81.1	68.6	59.4	56.9
80°	91.2	95.3	98.7	95.3	87.0	76.1	63.6	51.0	41.8	34.3	32.6
82.5°	66.9	71.9	74.4	71.1	62.7	54.4	45.2	36.0	26.8	20.9	19.2
85°	25.9	26.8	30.1	36.0	35.1	34.3	27.6	20.1	15.1	10.9	10.0
87.5°	6.7	5.9	6.7	6.7	5.9	5.0	5.0	5.0	5.0	2.5	3.3
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)