

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: P320104

Luminaire Tested: **GAN-SA0D-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72975 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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



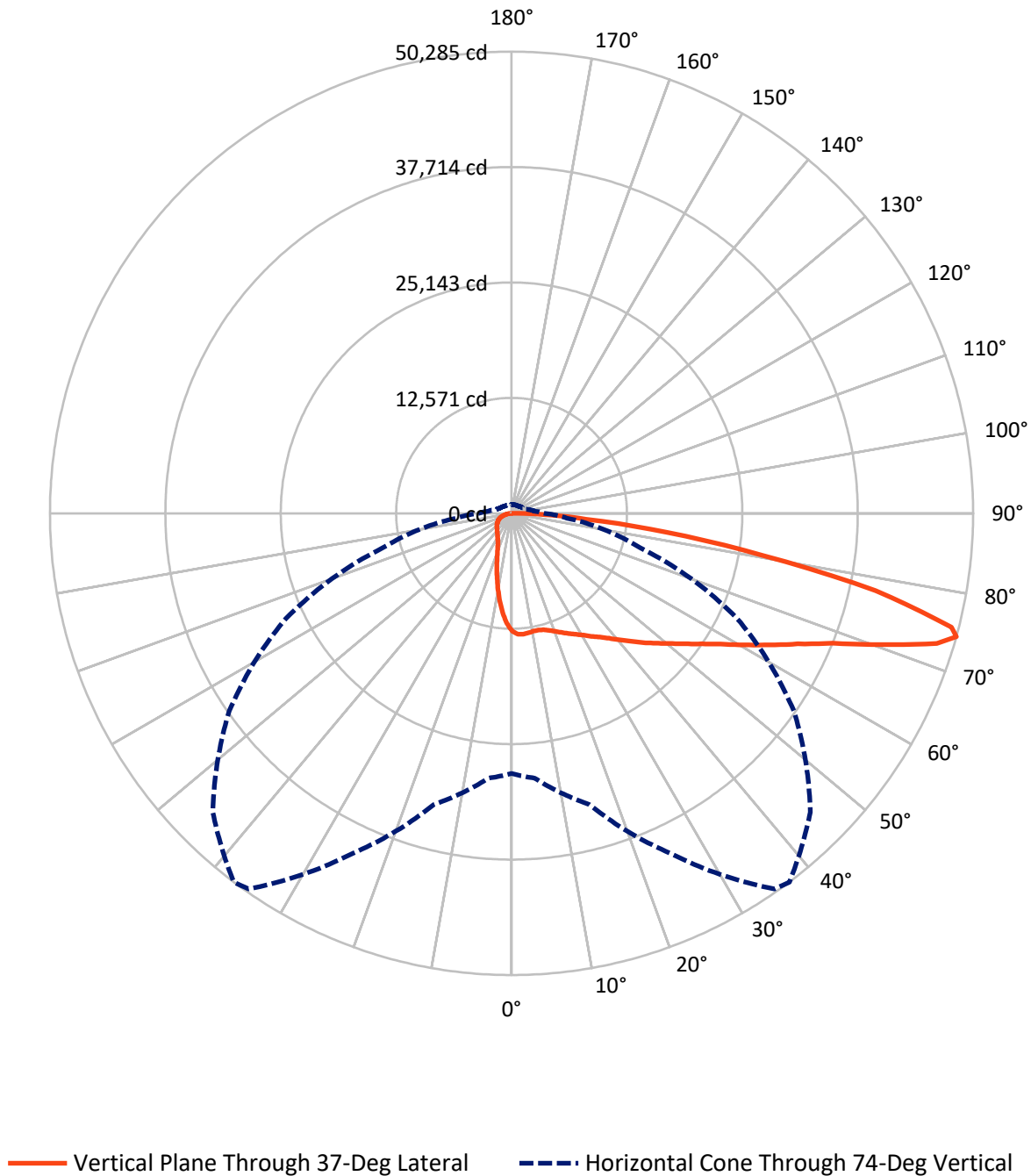
✘ Max cd

--- 1/2 Max cd

Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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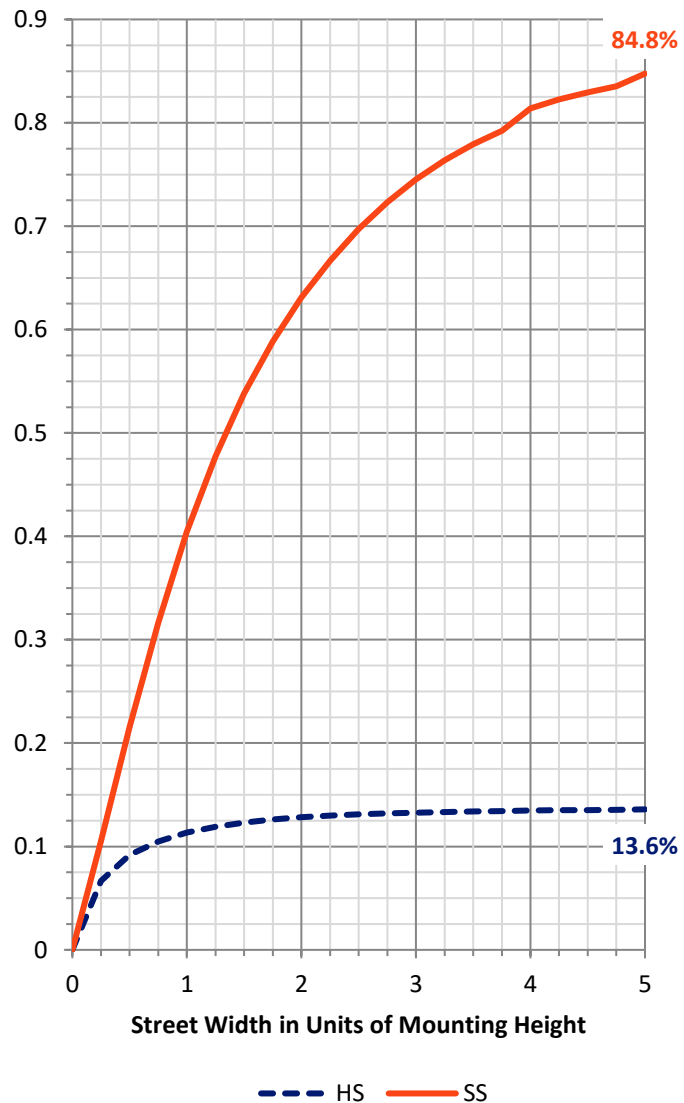
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10040.9	0.0	10040.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	62934.1	0.0	62934.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	72975.0	0.0	72975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.3	1.6
10°-20°	2902.3	4.0
20°-30°	4471.9	6.1
30°-40°	6502.9	8.9
40°-50°	9571.1	13.1
50°-60°	13440.9	18.4
60°-70°	17012.0	23.3
70°-80°	14979.7	20.5
80°-90°	2961.8	4.1
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°	72975.0	100.0
0°-180°	72975.0	100.0

Coefficient of Utilization



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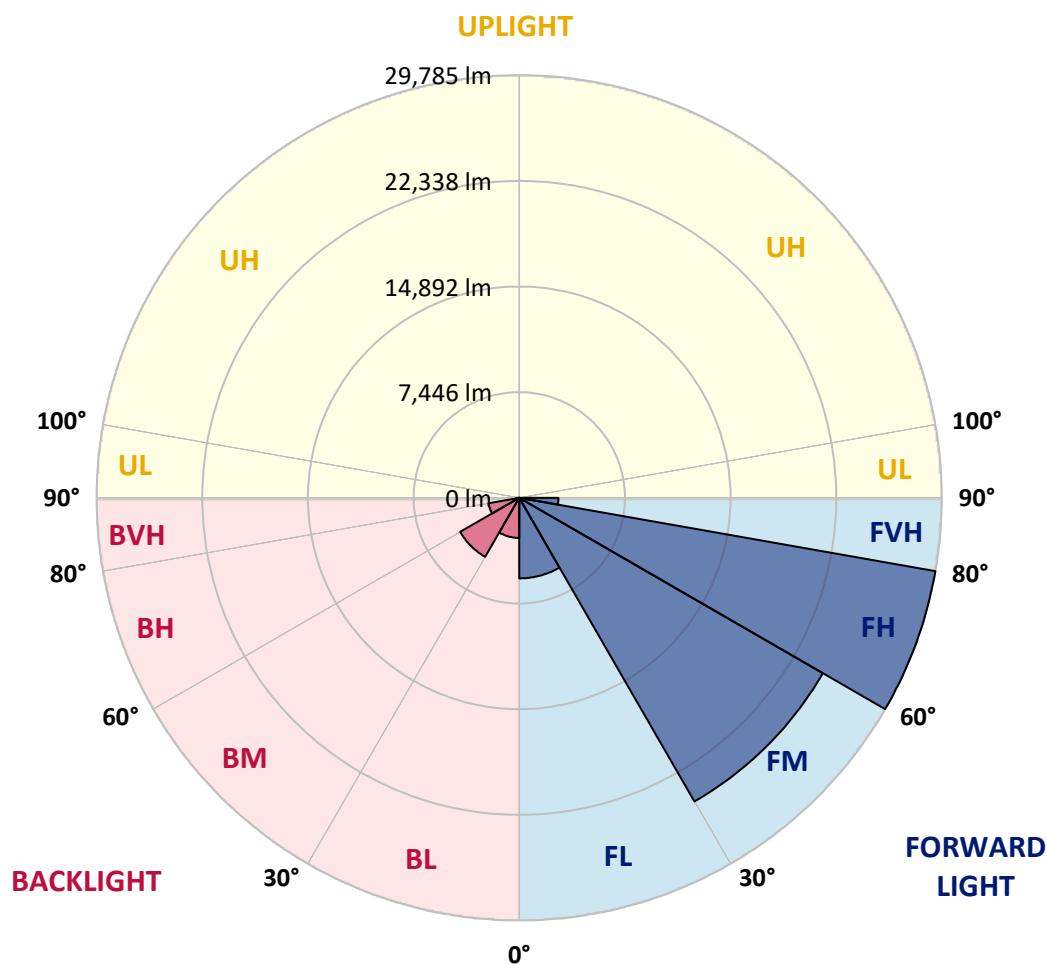
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5678.3	7.8			
FM	(30°-60°)	24709.9	33.9			
FH	(60°-80°)	29784.7	40.8			G5
FVH	(80°-90°)	2761.2	3.8			G5
BL	(0°-30°)	2828.3	3.9	B4/5000		
BM	(30°-60°)	4804.9	6.6	B3/5000		
BH	(60°-80°)	2207.1	3.0	B3/2500		G3/2500
BVH	(80°-90°)	200.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	12857.9	12857.9	12857.9	12857.9	12857.9	12857.9	12857.9	12857.9	12857.9	12857.9	12857.9
2.5°	13297.5	13300.0	13297.5	13276.9	13228.1	13186.9	13153.5	13104.7	12996.7	12914.5	12791.1
5°	13423.4	13408.0	13397.7	13359.2	13282.1	13235.8	13171.5	13079.0	12901.6	12737.1	12536.6
7.5°	13364.3	13346.3	13323.2	13276.9	13189.5	13151.0	13061.0	12940.2	12726.8	12510.9	12223.0
10°	13181.8	13176.7	13166.4	13156.1	13081.6	13050.7	12968.4	12839.9	12629.1	12366.9	12030.2
12.5°	12978.7	12991.6	13032.7	13086.7	13053.3	13037.9	12986.4	12899.0	12683.1	12400.4	11994.2
15°	12850.2	12886.2	12996.7	13138.1	13166.4	13161.2	13148.4	13091.8	12863.1	12549.4	12076.5
17.5°	12806.5	12865.6	13076.4	13310.3	13392.6	13410.6	13415.7	13318.0	13063.6	12732.0	12161.3
20°	12886.2	12960.7	13269.2	13590.5	13721.6	13731.9	13708.8	13539.1	13253.8	12888.8	12207.6
22.5°	13127.8	13194.7	13580.2	13942.7	14091.8	14107.2	14037.8	13780.7	13454.3	13073.8	12271.8
25°	13593.1	13675.3	14060.9	14423.4	14500.5	14503.1	14402.8	14084.1	13716.5	13333.5	12410.6
27.5°	14199.7	14282.0	14629.0	14983.8	14942.6	14919.5	14783.3	14464.5	14058.4	13690.8	12657.4
30°	14875.8	14965.8	15294.8	15546.7	15449.0	15402.8	15292.2	14880.9	14533.9	14179.2	13035.3
32.5°	15575.0	15657.2	15945.1	16117.4	15994.0	15973.4	15806.3	15431.0	15153.4	14924.6	13647.1
35°	16292.2	16351.3	16634.1	16731.7	16567.2	16562.1	16515.8	16171.4	15996.6	16104.5	14536.5
37.5°	17024.8	17040.2	17281.8	17287.0	17238.1	17258.7	17307.5	17091.6	17140.5	17477.2	15693.2
40°	17677.7	17718.8	17893.6	17947.6	18032.4	18104.4	18348.6	18207.2	18585.1	19181.5	17132.7
42.5°	18161.0	18240.7	18520.8	18659.7	18934.7	19047.8	19392.3	19523.4	20284.2	21178.8	18844.7
45°	18569.7	18693.1	19142.9	19428.2	19893.5	20091.5	20585.0	21024.6	22204.4	23345.8	20646.7
47.5°	19011.8	19168.6	19731.6	20276.5	20908.9	21132.5	22029.6	22687.7	24253.2	25525.6	22345.8
50°	19662.2	19783.0	20333.1	21189.1	21978.2	22266.1	23507.7	24451.1	26335.3	27602.6	23818.8
52.5°	20569.6	20523.3	20988.6	22189.0	23248.1	23602.8	25086.0	26327.6	28445.8	29481.7	25062.9
55°	21482.1	21405.0	21731.5	23235.2	24728.7	25101.5	26823.7	28211.8	30453.4	31173.1	26016.6
57.5°	22497.5	22351.0	22626.0	24415.1	26415.0	26859.7	28769.6	30214.3	32427.5	32540.6	26623.2
60°	23543.7	23345.8	23654.2	25877.8	28556.3	29080.7	31047.2	32167.9	34288.6	33635.7	26818.6
62.5°	24458.8	24320.0	24795.6	27510.1	30970.0	31545.8	33283.5	34244.9	36124.0	34090.7	26114.3
65°	25258.3	25281.4	26104.0	29345.4	33661.4	34275.8	35848.9	36805.2	37568.6	33820.8	24466.5
67.5°	26211.9	26343.0	27746.6	31761.8	37049.4	37722.9	39581.4	39596.8	38375.8	32237.3	21222.5
70°	27602.6	27872.5	30006.1	35113.8	41866.6	42792.0	44226.4	41236.8	37242.2	27944.5	16698.3
72.5°	28836.5	29340.3	32409.5	38949.0	47737.8	48439.5	46943.5	40290.9	32504.7	20942.3	10403.0
74°	28335.2	28959.9	32846.5	40838.4	49948.4	50285.2	46025.8	37530.1	27101.4	14503.1	6045.9
75°	27255.6	27934.2	32209.0	40820.4	49668.2	49480.6	43810.0	34376.0	22320.1	9891.5	4022.9
77.5°	21996.2	22713.4	27139.9	34985.2	40725.3	40547.9	33653.7	23060.4	9775.8	3244.0	2043.6
80°	12788.5	13336.0	16847.4	22217.3	27461.2	27782.5	22132.5	11410.7	3845.5	1822.5	1385.5
82.5°	5680.9	6058.8	8138.4	11341.3	16572.4	16986.2	11590.6	5979.1	2375.2	1107.9	832.9
85°	3727.3	4007.5	4940.6	5400.7	7891.6	8174.4	5673.2	4655.3	1568.0	609.2	611.8
87.5°	2681.1	2951.0	3670.8	3205.5	3621.9	3429.1	3087.2	4308.2	629.8	347.0	205.6
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°	12857.9	12857.9	12857.9	12857.9	12857.9	12857.9	12857.9	12857.9	12857.9	12857.9	12857.9
2.5°	12737.1	12696.0	12603.4	12428.6	12330.9	12248.7	12112.5	12032.8	11996.8	11994.2	12009.6
5°	12420.9	12325.8	12086.7	11793.7	11559.8	11346.4	11081.7	10922.3	10809.2	10742.3	10760.3
7.5°	12053.3	11904.2	11528.9	11061.1	10685.8	10271.9	9863.2	9619.0	9428.8	9287.4	9313.1
10°	11801.4	11595.8	11048.2	10374.8	9750.1	9148.6	8585.7	8248.9	7981.6	7775.9	7791.3
12.5°	11716.6	11439.0	10680.7	9781.0	8904.4	8081.8	7346.6	6830.0	6554.9	6321.0	6339.0
15°	11729.4	11356.7	10372.2	9246.3	8143.5	7107.6	6215.6	5611.5	5238.8	5076.8	5079.4
17.5°	11739.7	11261.6	10048.3	8673.0	7390.3	6197.6	5228.5	4616.7	4264.5	4115.5	4118.0
20°	11706.3	11107.4	9647.3	8015.0	6603.8	5362.2	4423.9	3904.7	3637.3	3521.7	3521.7
22.5°	11662.6	10924.9	9194.9	7354.4	5827.4	4637.3	3848.1	3452.3	3298.0	3220.9	3218.3
25°	11683.2	10788.6	8732.2	6675.7	5112.8	4058.9	3465.1	3202.9	3100.1	3051.2	3048.7
27.5°	11793.7	10724.4	8305.5	5999.7	4488.2	3624.5	3208.1	3023.0	2956.1	2925.3	2925.3
30°	11994.2	10724.4	7860.8	5423.9	3968.9	3303.2	3010.1	2884.2	2837.9	2817.3	2817.3
32.5°	12343.8	10783.5	7431.5	4853.2	3555.1	3051.2	2845.6	2760.8	2724.8	2714.5	2714.5
35°	12945.3	10984.0	7012.5	4313.4	3220.9	2845.6	2688.8	2640.0	2614.3	2611.7	2619.4
37.5°	13791.0	11392.7	6619.2	3915.0	2984.4	2678.5	2557.7	2519.1	2503.7	2516.6	2526.9
40°	14855.2	11947.9	6261.9	3555.1	2804.5	2544.8	2436.9	2411.2	2403.5	2421.5	2436.9
42.5°	16140.5	12698.5	5968.8	3295.5	2665.7	2431.7	2334.1	2303.2	2295.5	2316.1	2336.6
45°	17531.2	13505.7	5763.2	3102.7	2557.7	2346.9	2244.1	2210.7	2195.3	2205.5	2228.7
47.5°	18795.9	14269.1	5680.9	2966.4	2454.9	2274.9	2164.4	2123.3	2097.6	2092.4	2110.4
50°	19862.7	14837.2	5719.5	2884.2	2372.6	2195.3	2087.3	2041.0	2002.5	1979.3	1992.2
52.5°	20639.0	15194.5	5755.5	2848.2	2308.4	2107.9	2002.5	1958.8	1907.4	1868.8	1868.8
55°	21201.9	15276.8	5675.8	2819.9	2259.5	2012.7	1907.4	1866.2	1814.8	1771.1	1766.0
57.5°	21423.0	15045.5	5380.2	2778.8	2226.1	1922.8	1807.1	1776.3	1732.6	1681.1	1678.6
60°	21124.8	14330.8	4809.5	2691.4	2182.4	1848.2	1706.8	1686.3	1665.7	1616.9	1614.3
62.5°	19926.9	12762.8	4071.8	2514.0	2095.0	1768.5	1614.3	1624.6	1627.2	1593.7	1588.6
65°	17754.8	10608.7	3352.0	2282.7	1963.9	1673.4	1519.2	1568.0	1596.3	1591.2	1583.5
67.5°	14598.2	8256.6	2840.5	2038.4	1791.7	1542.3	1416.4	1472.9	1496.1	1514.1	1508.9
70°	10834.9	5822.3	2349.5	1781.4	1583.5	1388.1	1282.7	1311.0	1295.6	1316.1	1323.8
72.5°	6040.8	3493.4	1915.1	1524.3	1367.5	1208.2	1133.6	1128.5	1095.1	1095.1	1095.1
74°	3624.5	2562.8	1683.7	1365.0	1236.4	1089.9	1025.7	1002.5	971.7	974.2	971.7
75°	2915.0	2203.0	1544.9	1259.6	1143.9	1020.5	956.2	925.4	902.3	902.3	899.7
77.5°	1840.5	1673.4	1244.1	1002.5	915.1	840.6	796.9	755.7	755.7	753.2	750.6
80°	1390.7	1331.5	969.1	758.3	701.8	645.2	616.9	598.9	598.9	606.7	604.1
82.5°	953.7	1002.5	681.2	529.5	501.3	460.1	455.0	457.6	449.8	439.6	437.0
85°	696.6	753.2	460.1	334.2	305.9	280.2	300.8	311.0	298.2	275.0	264.8
87.5°	267.3	493.5	246.8	138.8	128.5	110.5	128.5	133.7	144.0	113.1	115.7
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)