

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: P317705

Luminaire Tested: **GAN-SA1A-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4543 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

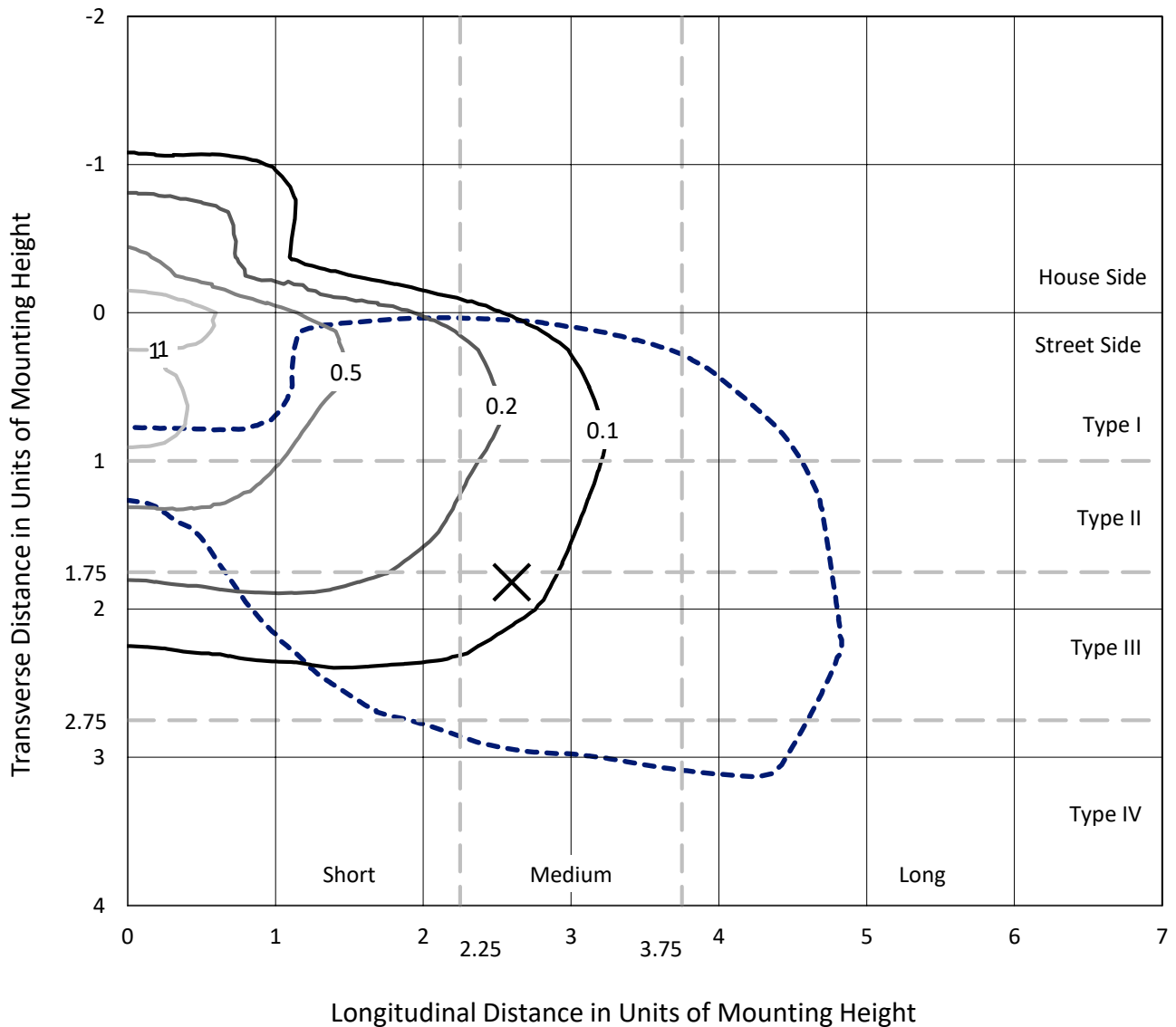
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

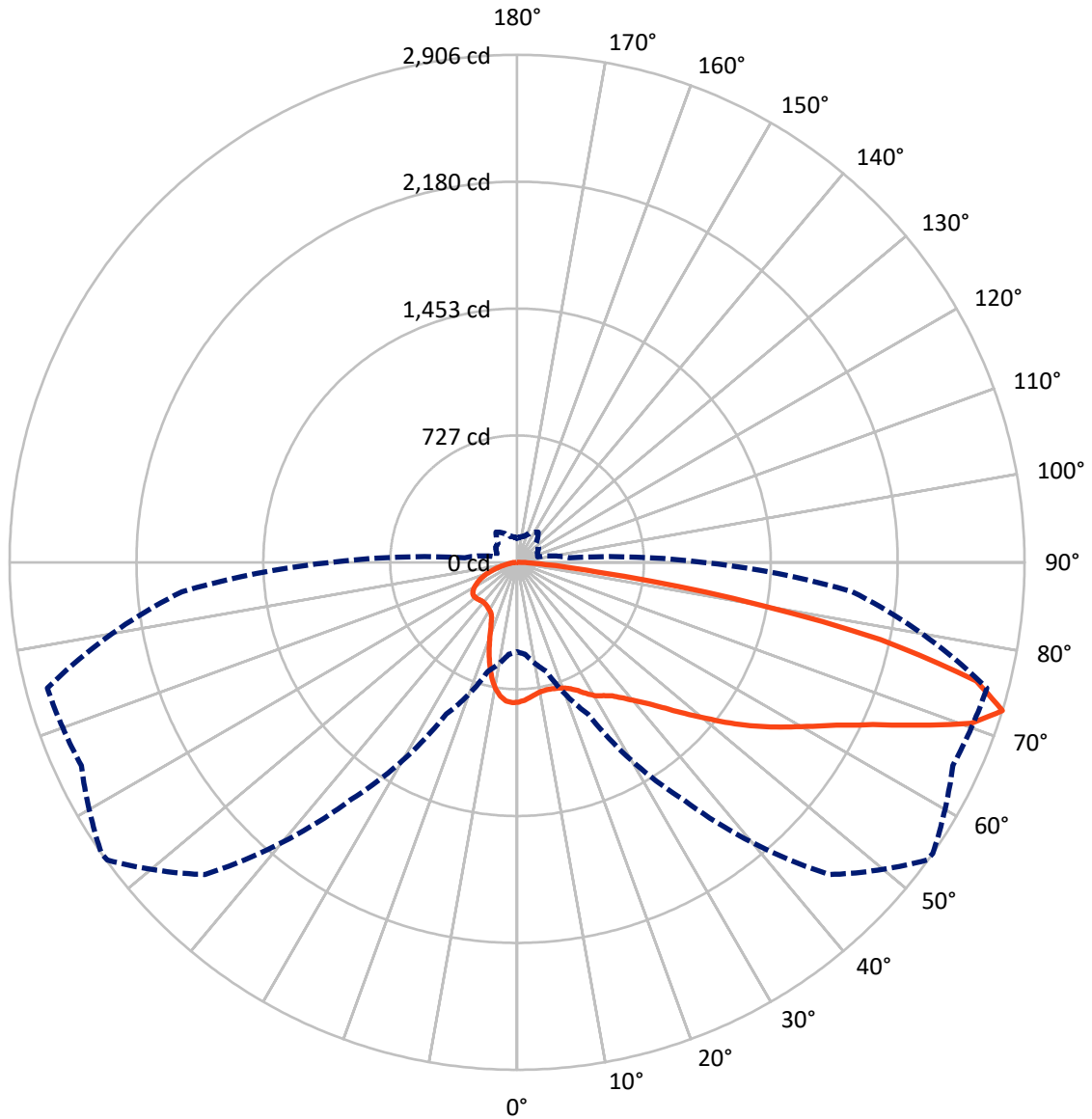
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	844.4	0.0	844.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3698.6	0.0	3698.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	4543.0	0.0	4543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	1.6
10°-20°	193.0	4.2
20°-30°	318.3	7.0
30°-40°	470.8	10.4
40°-50°	657.2	14.5
50°-60°	855.6	18.8
60°-70°	1051.5	23.1
70°-80°	824.3	18.1
80°-90°	99.8	2.2
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°	4543.0	100.0
0°-180°	4543.0	100.0

Coefficient of Utilization

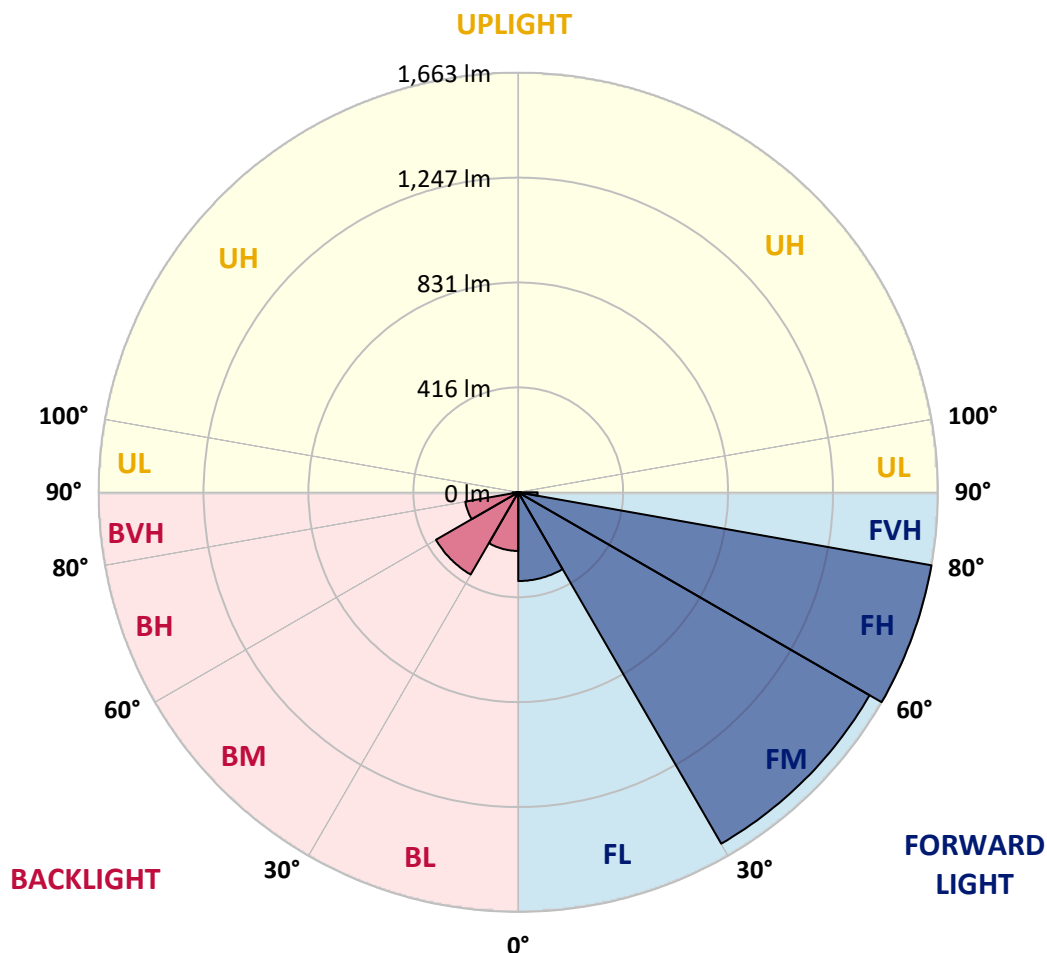


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.5	7.7			
FM (30°-60°)	1607.4	35.4			
FH (60°-80°)	1662.6	36.6			G1/1800
FVH (80°-90°)	77.1	1.7			G1/100
BL (0°-30°)	232.3	5.1	B1/500		
BM (30°-60°)	376.2	8.3	B1/1000		
BH (60°-80°)	213.2	4.7	B1/500		G1/500
BVH (80°-90°)	22.6	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3
2.5°	775.2	773.4	775.7	778.9	782.4	787.2	789.9	791.2	795.9	797.8	801.7
5°	739.3	738.4	742.2	747.7	755.6	766.6	775.5	777.2	789.8	798.7	806.8
7.5°	713.2	713.2	717.7	724.3	733.0	747.9	760.5	762.8	784.1	803.3	818.3
10°	692.5	693.3	698.5	706.3	716.6	732.4	749.1	751.7	782.6	814.0	838.0
12.5°	678.7	680.5	685.3	692.3	705.1	724.3	745.4	749.0	785.8	829.4	861.6
15°	687.4	690.5	691.0	693.9	700.9	721.8	747.6	751.3	792.7	845.0	888.4
17.5°	725.8	726.9	722.1	716.0	712.6	725.9	754.0	757.9	801.0	860.5	914.2
20°	784.1	783.5	773.2	756.6	739.4	741.6	764.6	768.6	812.2	874.2	940.0
22.5°	857.8	855.6	839.8	809.3	780.0	767.7	783.2	786.6	829.1	893.7	967.6
25°	947.1	942.3	921.4	880.5	837.3	805.7	811.1	814.3	853.6	915.5	992.9
27.5°	1041.3	1036.5	1010.0	960.4	903.0	853.8	849.6	852.4	881.5	931.6	1011.7
30°	1139.8	1134.7	1110.5	1054.9	972.7	903.5	885.5	886.6	901.2	940.3	1027.0
32.5°	1238.8	1234.0	1206.8	1142.4	1048.3	956.9	911.5	910.1	913.0	949.4	1044.3
35°	1339.1	1341.0	1309.2	1237.8	1132.1	1016.3	942.1	939.2	932.8	967.9	1068.9
37.5°	1446.5	1445.3	1404.2	1329.6	1219.7	1080.7	986.2	985.7	963.5	1003.1	1107.4
40°	1518.3	1519.1	1494.1	1423.5	1308.3	1152.1	1042.7	1041.6	1012.4	1055.7	1157.9
42.5°	1546.4	1551.5	1557.9	1513.1	1400.9	1234.8	1110.0	1108.5	1080.7	1131.2	1217.3
45°	1548.4	1558.5	1598.4	1592.8	1494.9	1329.4	1196.1	1191.8	1171.9	1231.5	1288.2
47.5°	1531.2	1541.7	1607.9	1640.2	1578.8	1429.3	1296.8	1293.4	1276.2	1357.1	1364.9
50°	1493.6	1503.6	1588.3	1663.3	1647.8	1525.4	1412.8	1403.9	1394.7	1502.1	1452.7
52.5°	1423.2	1442.4	1562.1	1668.9	1689.1	1610.7	1534.8	1528.9	1534.0	1655.1	1540.6
55°	1256.4	1277.9	1494.4	1664.3	1719.7	1682.4	1656.7	1656.4	1682.7	1815.6	1635.0
57.5°	1163.0	1178.1	1356.6	1656.4	1755.9	1753.6	1777.5	1780.4	1831.5	1990.3	1733.8
60°	1110.2	1126.1	1286.8	1627.4	1812.0	1845.6	1900.7	1906.5	1982.8	2183.8	1852.7
62.5°	1062.1	1079.6	1243.5	1568.4	1878.2	1977.3	2048.3	2053.5	2143.0	2382.7	1967.6
65°	980.1	999.8	1180.1	1529.5	1938.3	2149.0	2236.0	2239.5	2327.0	2591.1	2055.5
67.5°	864.0	882.2	1060.6	1443.8	1982.8	2357.5	2485.5	2487.5	2509.4	2738.2	2100.5
70°	728.6	735.5	890.3	1266.7	1930.2	2552.6	2758.9	2759.4	2675.8	2832.4	2093.1
72.5°	511.9	528.2	646.3	958.9	1658.7	2528.8	2900.9	2906.1	2753.1	2784.9	1925.9
75°	313.9	331.1	405.4	581.1	1052.3	1988.8	2680.2	2716.4	2608.1	2483.0	1573.3
77.5°	209.9	216.4	264.5	338.8	476.8	1144.2	2060.6	2128.7	2166.6	1810.8	1006.1
80°	117.1	129.4	175.4	210.5	212.1	454.7	1235.5	1251.5	1205.5	721.0	310.4
82.5°	62.0	68.7	117.1	123.7	115.7	152.2	460.5	460.9	385.1	193.3	92.2
85°	48.0	53.7	80.3	75.5	59.1	67.5	151.9	160.2	131.0	79.2	30.1
87.5°	23.9	29.8	54.5	47.9	23.2	19.3	54.3	58.0	51.7	31.0	10.9
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°	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3
2.5°	803.3	804.7	806.4	804.5	803.9	801.4	797.3	796.4	794.2	794.4	795.6
5°	810.3	812.6	811.7	804.7	796.2	784.4	772.1	761.7	754.8	754.3	753.9
7.5°	823.8	825.4	818.2	798.1	774.4	747.1	721.3	698.8	685.1	681.8	681.0
10°	845.0	844.7	824.9	784.4	737.3	688.5	647.1	615.8	597.5	592.1	590.8
12.5°	868.6	865.1	827.2	759.6	684.8	617.2	564.7	529.8	510.8	504.7	503.1
15°	893.0	884.3	821.5	722.4	620.4	540.3	485.2	453.0	442.7	439.3	438.7
17.5°	915.8	898.9	805.3	672.1	546.9	463.7	420.7	407.9	410.3	414.8	414.9
20°	938.0	908.7	779.2	608.6	469.4	400.6	386.1	395.6	407.2	416.3	417.5
22.5°	959.9	915.6	745.6	535.2	400.0	365.2	375.5	392.8	406.2	416.0	417.7
25°	978.4	917.3	699.2	457.0	351.8	351.8	370.4	386.8	400.0	409.7	411.4
27.5°	985.1	905.9	633.9	384.5	327.6	345.7	363.4	377.0	388.2	398.5	400.3
30°	987.7	884.9	558.4	326.4	317.6	339.1	353.8	365.5	376.1	385.8	387.4
32.5°	988.2	859.6	478.3	293.4	310.7	332.2	342.0	352.3	363.7	367.5	368.1
35°	991.1	829.7	393.9	276.5	304.3	325.8	333.6	341.0	322.5	323.9	325.1
37.5°	999.5	800.1	323.3	267.0	300.1	322.4	331.7	305.0	290.6	287.2	286.8
40°	1015.3	768.5	271.0	259.3	298.6	324.1	319.9	284.8	259.9	241.4	238.6
42.5°	1037.3	734.4	237.5	254.3	299.7	332.2	303.5	265.3	224.0	212.1	210.5
45°	1062.0	698.6	219.4	250.7	303.4	338.5	300.1	239.4	207.3	198.3	197.5
47.5°	1085.9	654.9	210.1	249.2	308.4	333.4	285.9	231.4	199.3	194.6	195.0
50°	1113.4	615.5	204.4	247.5	312.9	330.2	269.8	227.3	196.3	202.1	208.2
52.5°	1136.6	574.6	199.3	244.1	314.6	324.5	265.6	228.0	196.3	207.5	213.3
55°	1164.0	543.8	193.5	237.1	311.3	308.4	262.7	232.6	198.6	191.5	192.1
57.5°	1199.5	533.7	187.0	226.0	300.6	284.9	261.3	237.1	197.2	192.7	194.3
60°	1248.6	544.4	184.4	211.6	283.9	266.5	261.5	234.8	187.5	179.8	180.0
62.5°	1295.4	556.4	184.3	202.5	263.3	250.1	257.9	227.3	182.6	178.1	179.8
65°	1310.7	544.3	176.9	192.4	240.1	230.5	251.5	219.3	178.9	172.2	171.9
67.5°	1290.2	506.7	162.0	176.0	213.6	207.6	243.1	209.8	173.1	167.6	166.6
70°	1229.1	422.7	143.6	154.4	183.4	181.8	229.7	198.7	165.3	160.5	156.5
72.5°	1064.8	301.2	121.1	128.4	149.3	154.2	211.3	184.3	154.2	143.9	137.8
75°	874.5	223.0	99.4	101.0	113.4	126.7	186.0	167.4	141.2	123.7	118.9
77.5°	535.5	136.4	79.2	79.8	81.3	101.1	153.1	148.5	124.6	103.1	99.7
80°	173.4	74.4	57.2	60.2	55.5	74.1	118.5	126.4	107.0	86.2	82.6
82.5°	66.0	43.4	38.7	40.7	38.5	49.7	86.4	101.3	87.6	70.9	57.7
85°	31.9	24.6	22.9	25.6	23.8	25.5	55.2	74.6	66.4	46.2	43.0
87.5°	11.4	10.9	8.7	11.8	10.1	9.1	16.9	37.6	43.9	31.8	28.4
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)