

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: P319005

Luminaire Tested: **GAN-SA1C-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6698 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

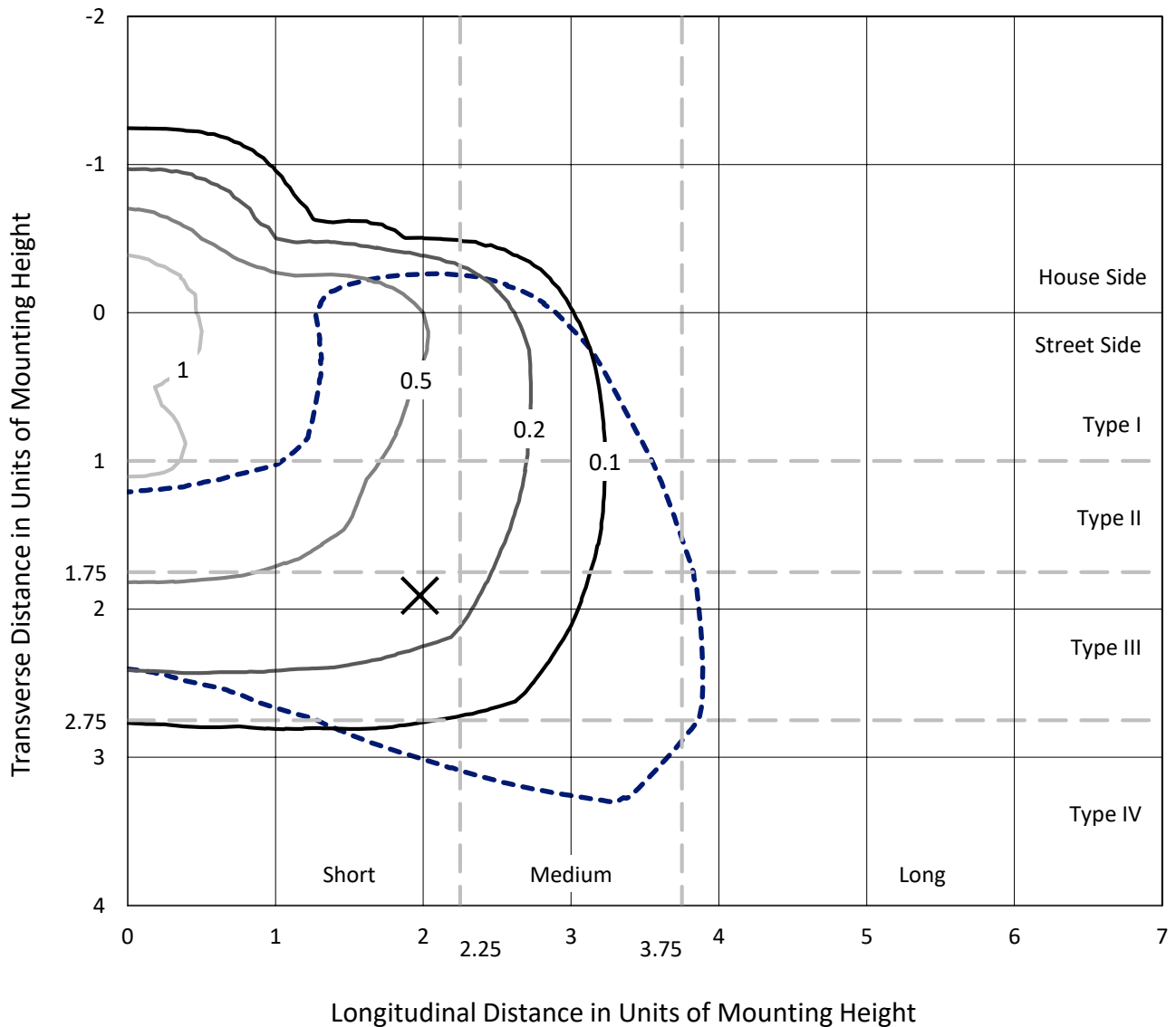
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

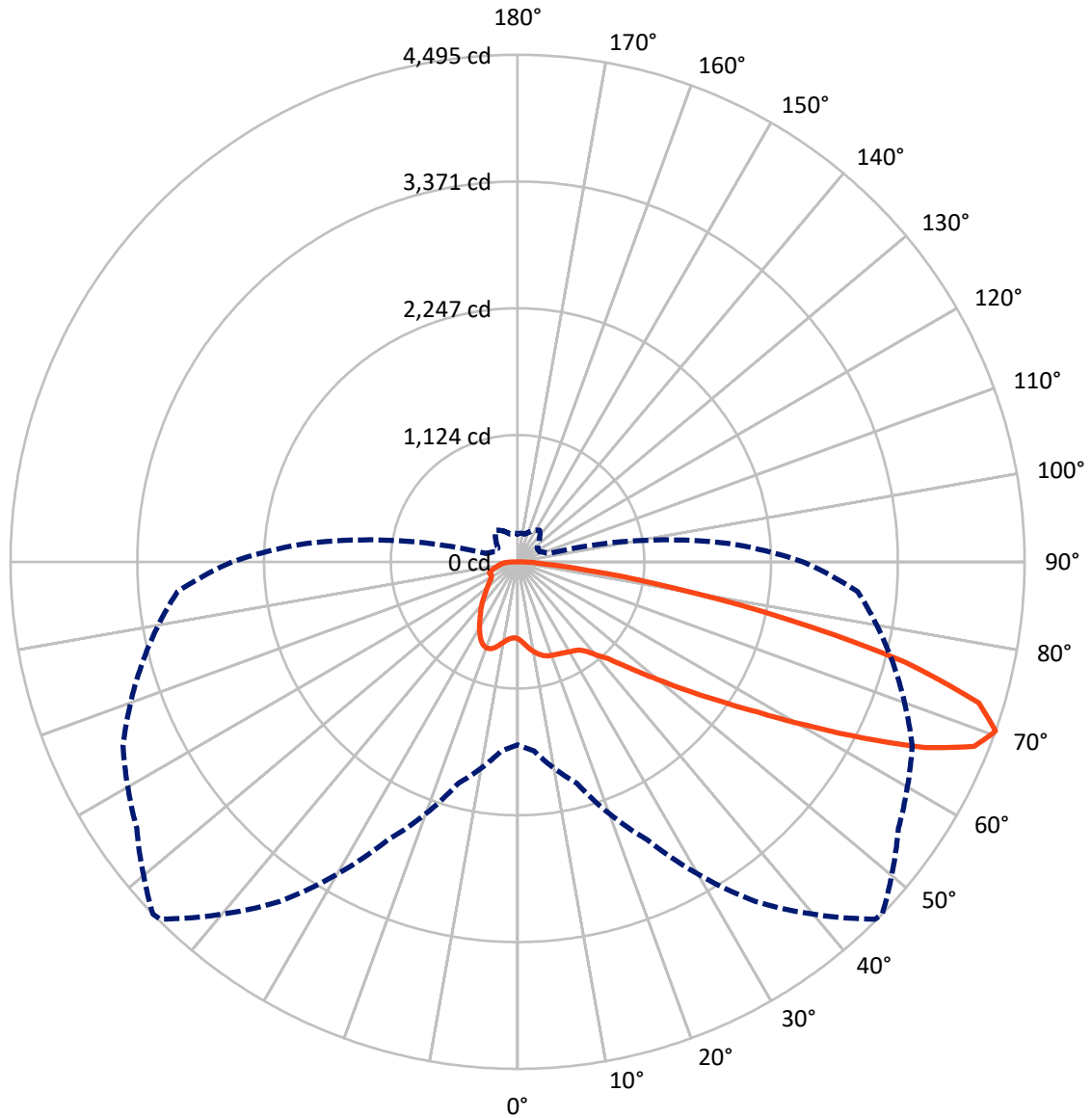
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1535.2	0.0	1535.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5162.8	0.0	5162.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	6698.0	0.0	6698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	1.0
10°-20°	231.8	3.5
20°-30°	386.4	5.8
30°-40°	548.4	8.2
40°-50°	806.7	12.0
50°-60°	1366.1	20.4
60°-70°	1939.1	29.0
70°-80°	1178.0	17.6
80°-90°	171.9	2.6
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°	6698.0	100.0
0°-180°	6698.0	100.0

Coefficient of Utilization

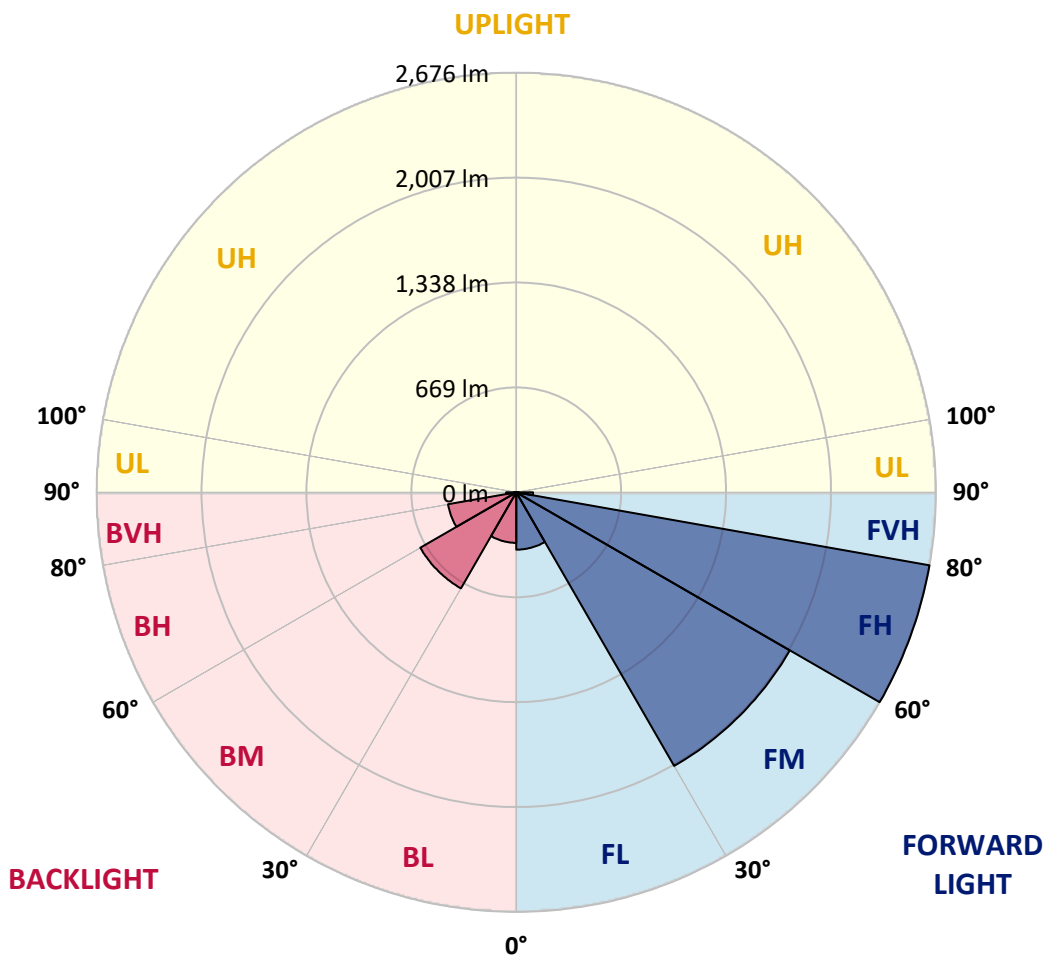


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.5	5.5			
FM (30°-60°)	2014.5	30.1			
FH (60°-80°)	2675.8	39.9			G2/5000
FVH (80°-90°)	107.1	1.6			G2/225
BL (0°-30°)	322.3	4.8	B1/500		
BM (30°-60°)	706.7	10.6	B1/1000		
BH (60°-80°)	441.3	6.6	B1/500		G1/500
BVH (80°-90°)	64.8	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4
2.5°	716.5	717.0	717.9	715.6	709.2	707.4	706.7	700.0	695.7	689.3	683.8
5°	773.9	774.3	772.9	766.5	752.3	741.8	740.8	725.7	712.0	697.3	686.3
7.5°	833.7	834.4	830.0	817.9	797.9	779.6	778.4	757.8	737.0	714.7	698.2
10°	886.6	883.9	876.8	859.8	836.2	813.7	812.8	791.3	767.2	740.4	718.4
12.5°	921.9	919.6	910.5	889.8	863.9	843.3	841.5	821.5	798.2	768.8	742.5
15°	941.4	943.0	930.6	907.3	882.0	864.6	863.0	848.8	828.0	798.4	768.1
17.5°	943.9	945.3	933.4	910.2	889.6	877.7	877.0	867.6	852.5	824.1	792.4
20°	929.3	930.2	920.3	901.3	887.8	884.1	883.9	879.8	868.5	843.3	812.6
22.5°	907.9	908.6	901.5	887.8	883.2	888.9	890.5	888.9	880.9	857.3	828.4
25°	902.7	902.2	894.9	880.9	884.8	896.9	899.0	899.7	894.2	873.6	848.6
27.5°	928.1	926.5	912.5	890.1	892.6	907.3	910.0	916.7	913.2	895.1	871.5
30°	1001.7	999.0	970.3	924.9	912.5	920.1	923.5	934.1	934.8	919.6	902.0
32.5°	1125.9	1122.5	1071.2	990.0	946.2	933.2	936.4	952.2	960.7	949.0	930.0
35°	1283.0	1279.1	1211.7	1100.7	1002.6	958.1	960.4	973.0	990.0	973.5	948.3
37.5°	1446.6	1437.2	1372.4	1230.9	1092.2	1011.6	1011.6	1013.2	1021.2	986.8	969.8
40°	1609.4	1600.0	1541.3	1384.0	1208.2	1095.7	1090.4	1054.9	1048.5	1018.9	1013.2
42.5°	1760.7	1757.9	1723.3	1557.1	1344.4	1178.4	1171.1	1110.8	1112.2	1093.8	1094.1
45°	1921.6	1921.6	1893.4	1731.8	1503.0	1311.4	1304.0	1215.3	1229.1	1220.6	1241.0
47.5°	2052.9	2057.0	2053.1	1913.8	1687.5	1480.3	1467.0	1360.2	1398.7	1427.8	1487.2
50°	2187.0	2193.4	2194.1	2113.4	1910.6	1681.1	1666.0	1552.5	1638.5	1721.9	1838.6
52.5°	2381.6	2396.1	2338.5	2312.6	2183.8	1919.5	1904.6	1799.9	1943.3	2060.5	2261.5
55°	2562.0	2549.4	2508.4	2524.4	2476.3	2190.9	2179.7	2087.8	2283.1	2435.3	2696.3
57.5°	2659.7	2658.8	2700.0	2768.8	2791.7	2525.6	2516.2	2426.8	2666.1	2780.5	3104.6
60°	2774.3	2775.9	2878.1	3034.2	3128.7	2942.3	2938.2	2870.3	3038.1	3102.8	3424.8
62.5°	2790.3	2819.2	2995.2	3263.9	3444.1	3429.2	3438.3	3269.9	3370.9	3359.9	3663.9
65°	2605.8	2643.9	2962.5	3333.4	3757.6	3961.7	3970.1	3671.7	3633.4	3579.8	3749.4
67.5°	2227.6	2284.0	2630.1	3182.3	3861.0	4355.2	4367.1	3983.2	3851.2	3654.3	3543.5
70°	1621.1	1683.6	2032.1	2717.9	3676.7	4481.1	4494.6	4121.0	3859.4	3442.2	3025.0
72.5°	979.2	1028.3	1315.5	2000.9	3103.2	4251.8	4275.9	3946.3	3523.6	2915.7	2233.8
75°	430.0	462.1	636.1	1153.0	2221.6	3517.9	3547.9	3377.8	2863.0	2118.9	1320.3
77.5°	183.1	192.3	260.9	500.9	1255.9	2403.9	2445.1	2468.0	1942.4	1153.0	557.9
80°	114.2	117.8	147.6	226.7	587.7	1350.1	1394.6	1452.1	964.6	423.8	194.8
82.5°	69.5	73.6	98.1	137.1	306.0	612.0	633.3	673.9	374.3	183.1	100.9
85°	41.7	44.7	60.1	86.6	174.2	240.7	240.5	265.9	176.3	117.8	53.2
87.5°	19.9	22.2	32.1	44.9	87.8	90.3	84.6	95.8	107.0	77.2	26.8
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°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4
2.5°	681.9	681.0	678.0	675.7	675.3	673.9	672.8	673.5	674.4	674.6	674.6
5°	681.7	679.2	675.3	673.7	675.7	678.5	681.9	686.5	689.3	691.3	692.7
7.5°	692.7	687.9	683.5	682.6	686.8	694.1	701.9	711.5	718.2	722.7	723.7
10°	711.0	705.1	700.7	701.6	709.0	719.5	730.5	742.9	753.0	759.2	759.6
12.5°	732.1	726.4	722.3	726.2	738.3	751.2	762.6	773.4	782.6	788.8	788.8
15°	756.4	752.3	747.5	756.4	772.9	784.4	789.2	794.5	799.5	804.1	803.2
17.5°	779.8	775.9	773.4	783.9	801.1	806.4	803.2	799.3	799.3	801.8	802.3
20°	800.0	796.5	798.2	808.5	817.4	811.9	800.0	787.6	782.6	783.9	785.3
22.5°	817.6	816.0	820.8	825.7	819.2	800.0	778.0	761.2	755.1	754.6	755.1
25°	838.3	838.0	844.0	835.3	806.9	771.3	741.8	725.5	722.1	724.8	729.4
27.5°	863.9	866.5	869.4	837.6	781.6	728.0	698.0	686.8	690.2	696.8	701.2
30°	896.7	903.6	897.2	831.8	745.4	678.5	649.8	646.6	656.0	665.4	670.0
32.5°	928.6	939.4	923.8	816.9	698.7	626.0	603.8	602.9	614.3	623.5	629.9
35°	954.3	975.6	943.7	787.4	644.6	577.6	561.4	555.2	559.3	570.1	577.4
37.5°	987.7	1023.2	957.5	742.2	585.9	537.8	518.7	504.5	500.9	505.2	508.9
40°	1048.9	1095.9	963.9	679.2	528.6	497.9	478.6	457.8	443.3	432.8	433.0
42.5°	1148.9	1190.6	959.8	602.6	475.6	458.9	437.1	413.1	389.7	365.8	364.0
45°	1311.2	1331.3	947.4	521.5	429.1	418.1	397.7	373.6	342.5	315.4	312.9
47.5°	1570.9	1526.2	928.1	450.7	388.1	383.5	364.7	337.0	303.9	282.2	280.3
50°	1925.0	1807.4	918.7	394.3	351.9	353.2	337.9	308.5	277.4	261.3	259.5
52.5°	2348.6	2135.0	936.8	350.7	322.7	327.6	316.1	288.6	262.5	249.9	248.0
55°	2788.0	2474.2	956.3	319.1	295.2	304.6	300.7	278.0	254.4	242.7	241.1
57.5°	3164.2	2727.5	917.3	293.4	270.7	285.4	288.8	271.4	250.3	239.8	237.9
60°	3401.0	2829.5	815.1	269.3	251.2	270.0	281.9	269.6	251.9	251.0	249.6
62.5°	3513.3	2820.6	661.8	250.3	239.1	263.4	287.0	279.9	270.3	278.5	279.2
65°	3462.9	2685.8	492.8	237.7	230.4	265.9	302.1	299.4	275.5	283.8	284.9
67.5°	3130.9	2364.2	364.9	226.7	220.7	273.0	329.6	305.8	265.2	271.2	267.5
70°	2530.6	1874.4	281.5	214.3	210.9	272.1	342.0	301.9	254.0	255.4	245.5
72.5°	1745.1	1278.1	229.0	202.9	196.7	248.0	333.3	292.3	244.6	234.0	221.0
75°	949.0	686.1	194.6	190.9	171.7	217.8	317.2	285.4	236.1	222.1	214.8
77.5°	373.4	284.7	168.9	174.7	150.1	192.3	299.4	272.3	224.4	206.1	202.4
80°	152.4	145.3	140.1	151.1	129.1	168.2	277.8	257.0	210.4	191.2	183.8
82.5°	86.4	90.3	108.9	119.2	104.8	155.0	267.5	244.6	193.7	171.2	162.5
85°	44.2	53.0	75.9	85.5	77.0	131.8	246.4	214.1	155.4	131.1	131.8
87.5°	21.3	29.6	47.9	53.6	50.0	95.4	184.1	155.2	121.0	95.8	92.8
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)