

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: P317426

Luminaire Tested: **GAN-SA2A-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9934 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

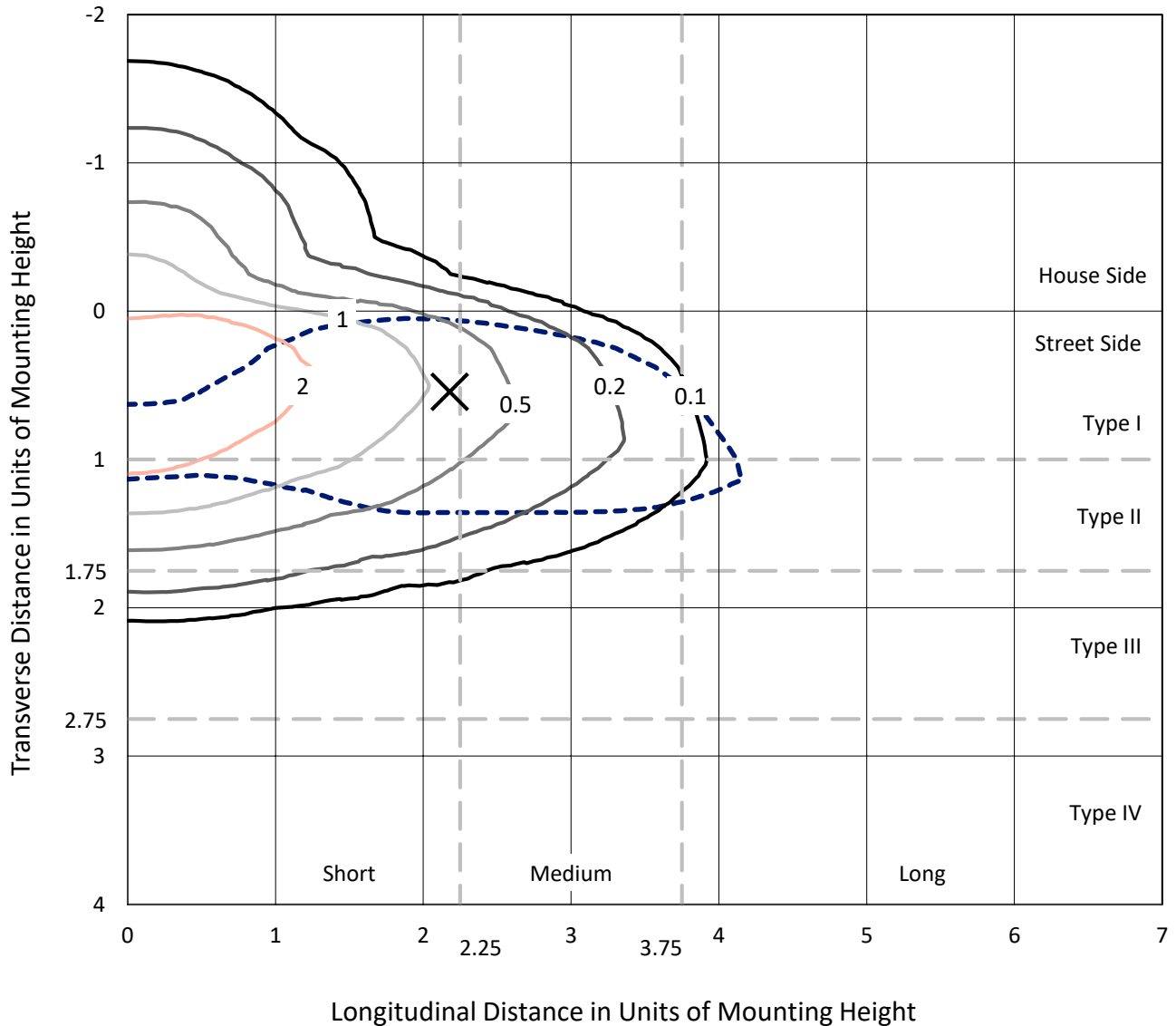
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

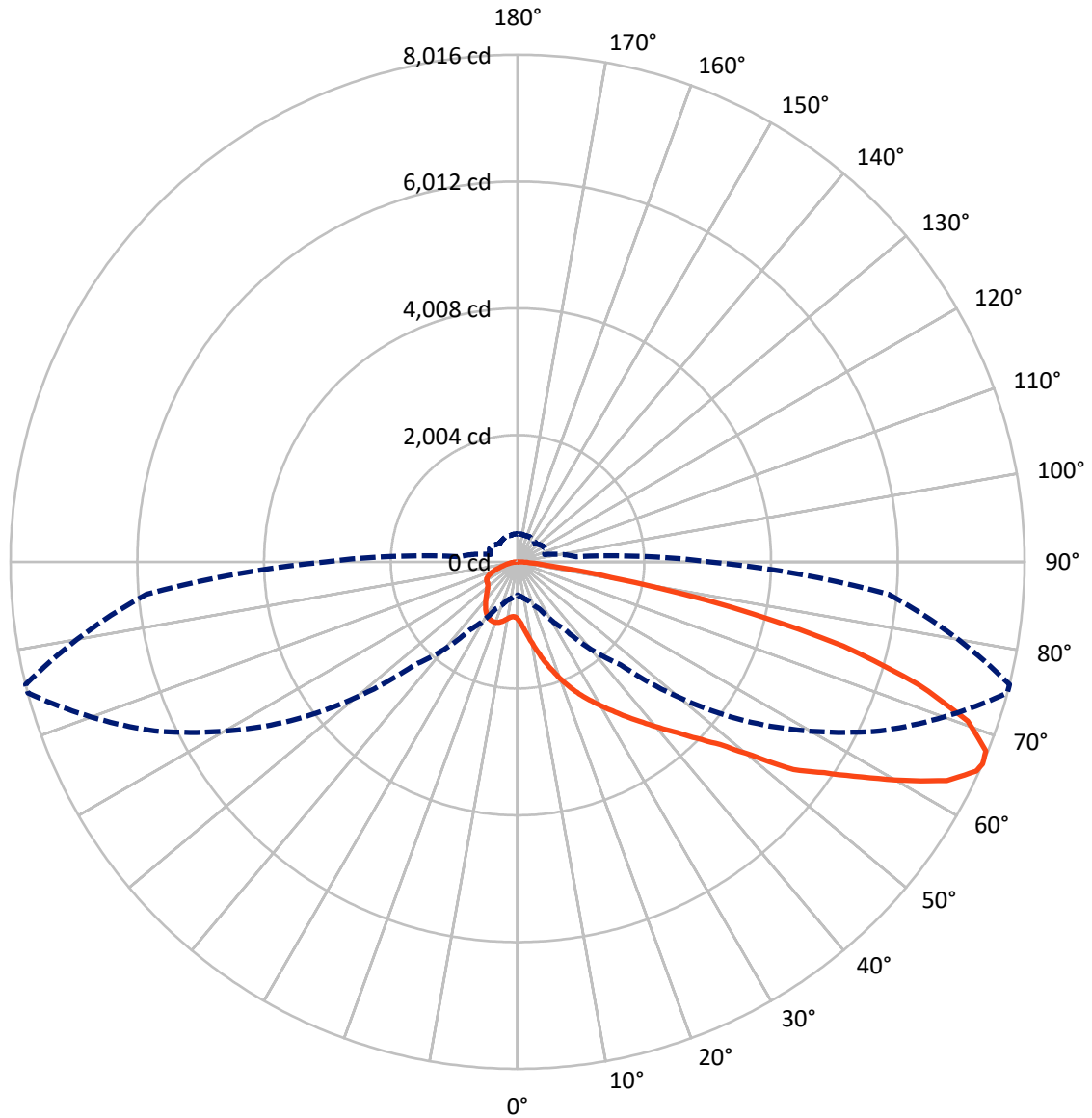
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1671.5	0.0	1671.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	8262.5	0.0	8262.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	9934.0	0.0	9934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	1.1
10°-20°	433.2	4.4
20°-30°	841.8	8.5
30°-40°	1374.1	13.8
40°-50°	1877.3	18.9
50°-60°	2186.7	22.0
60°-70°	1960.4	19.7
70°-80°	990.7	10.0
80°-90°	160.0	1.6
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°	9934.0	100.0
0°-180°	9934.0	100.0

Coefficient of Utilization



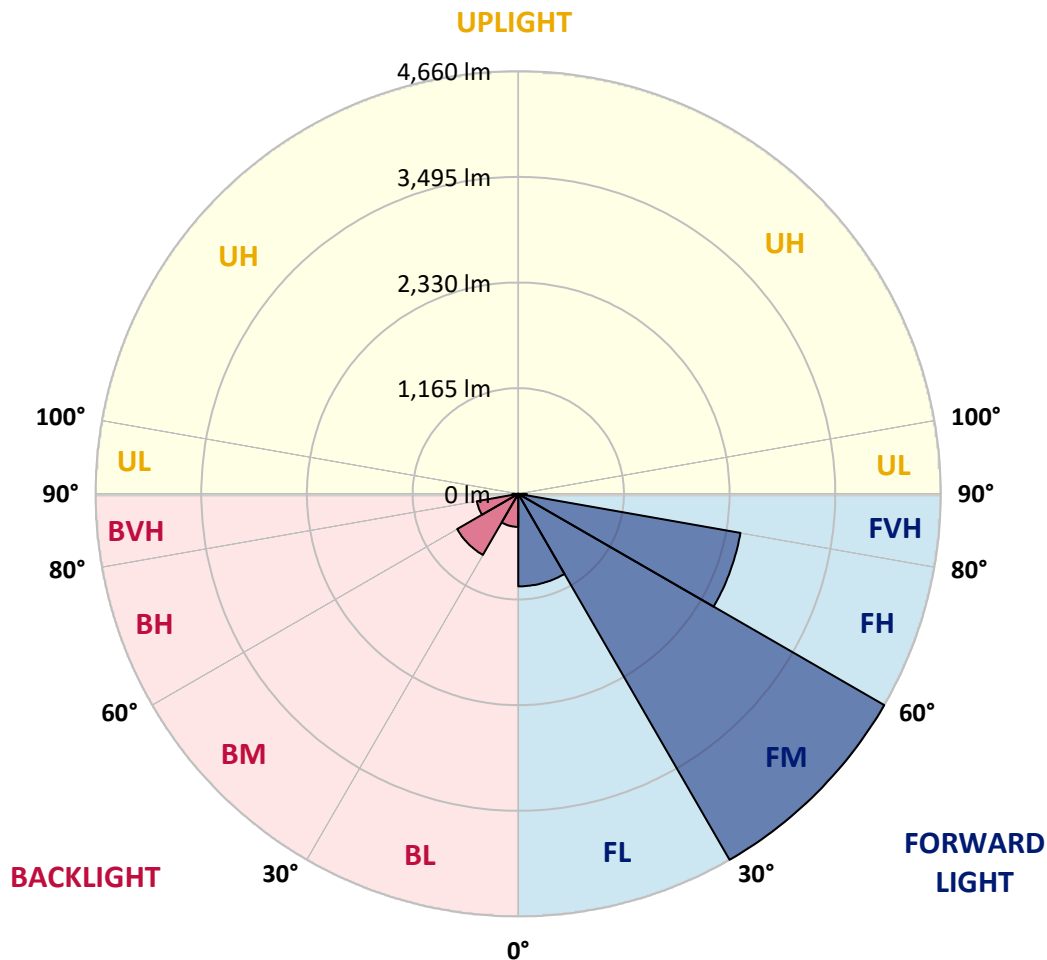
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.2	10.3			
FM (30°-60°)	4659.7	46.9			
FH (60°-80°)	2488.0	25.0			G2/5000
FVH (80°-90°)	94.5	1.0			G1/100
BL (0°-30°)	364.6	3.7	B1/500		
BM (30°-60°)	778.4	7.8	B1/1000		
BH (60°-80°)	463.1	4.7	B1/500		G1/500
BVH (80°-90°)	65.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2
2.5°	1204.3	1186.1	1184.4	1157.8	1151.7	1100.8	1063.3	1024.2	979.7	970.9	935.9
5°	1547.0	1545.3	1522.0	1478.5	1444.4	1357.4	1271.4	1180.4	1080.5	1064.4	985.4
7.5°	1855.2	1852.5	1834.6	1787.8	1738.5	1631.6	1508.8	1369.2	1207.3	1183.4	1052.6
10°	2089.3	2088.2	2082.2	2047.8	2006.0	1903.4	1767.9	1577.3	1354.7	1322.0	1136.5
12.5°	2270.0	2272.0	2276.1	2263.9	2244.1	2156.7	2017.8	1797.9	1511.9	1479.5	1229.9
15°	2392.4	2398.5	2419.4	2436.6	2447.1	2393.5	2258.9	2023.5	1687.9	1649.1	1333.5
17.5°	2454.2	2460.9	2497.0	2548.9	2596.8	2591.4	2484.5	2238.7	1856.9	1819.5	1444.8
20°	2507.4	2512.5	2553.0	2615.4	2700.0	2737.4	2677.4	2445.7	2042.0	1997.5	1562.8
22.5°	2661.9	2668.3	2680.5	2715.9	2790.7	2859.5	2830.5	2641.7	2211.7	2170.2	1674.8
25°	2960.0	2967.8	2941.5	2911.5	2925.6	2973.5	2978.9	2820.4	2383.7	2336.8	1795.2
27.5°	3319.2	3330.3	3285.5	3208.2	3140.8	3122.2	3115.8	2966.8	2547.9	2493.6	1914.2
30°	3670.9	3690.2	3631.8	3531.7	3407.9	3320.9	3256.5	3110.1	2709.8	2657.9	2026.5
32.5°	4014.6	4006.8	3922.2	3824.4	3679.4	3570.4	3414.6	3263.9	2891.9	2832.2	2138.2
35°	4250.0	4252.7	4174.1	4058.1	3919.8	3836.2	3626.4	3429.8	3077.7	3022.8	2265.0
37.5°	4450.3	4437.9	4348.8	4240.6	4121.5	4085.8	3874.3	3612.6	3279.1	3219.0	2399.9
40°	4517.1	4502.6	4444.3	4366.4	4270.9	4267.9	4147.8	3819.7	3506.7	3447.4	2552.0
42.5°	4476.6	4458.1	4434.1	4412.9	4383.6	4397.0	4404.8	4062.5	3756.9	3690.5	2728.0
45°	4327.2	4299.2	4316.1	4362.3	4426.0	4502.3	4636.8	4331.3	4037.2	3981.6	2934.7
47.5°	4097.6	4072.3	4124.9	4223.7	4397.0	4590.0	4856.4	4628.1	4371.8	4316.4	3229.2
50°	3774.5	3781.9	3857.1	4036.9	4298.9	4630.4	5126.9	5021.0	4858.1	4806.5	3630.8
52.5°	3244.3	3245.7	3457.5	3752.6	4124.9	4609.5	5276.9	5523.1	5522.1	5459.7	4013.3
55°	2751.9	2782.0	2949.6	3341.8	3842.9	4525.9	5381.8	5767.3	5958.2	5885.0	4369.7
57.5°	2271.0	2288.6	2447.4	2841.3	3440.6	4303.0	5489.4	6060.4	6460.7	6414.5	4812.9
60°	1724.0	1751.0	1915.2	2279.1	2926.0	3907.4	5499.5	6366.2	7061.3	7014.8	5307.6
62.5°	1119.0	1165.5	1319.3	1660.3	2303.4	3338.4	5264.8	6566.2	7630.6	7614.1	5746.7
65°	643.1	678.2	785.1	1048.2	1589.1	2624.1	4706.6	6489.3	7981.0	7971.5	5911.0
66°	525.4	547.4	629.3	819.2	1311.2	2304.4	4382.2	6327.1	8015.7	8016.1	5892.1
67.5°	420.2	430.0	466.8	586.5	967.6	1826.5	3802.5	5969.3	7972.6	7984.4	5770.3
70°	347.7	352.8	364.2	393.2	528.1	1101.5	2699.0	5039.5	7539.2	7548.3	5295.1
72.5°	312.0	315.0	319.4	323.4	372.7	615.5	1648.5	4031.5	6610.1	6621.9	4571.1
75°	282.6	284.3	283.6	284.0	312.6	392.2	851.9	3009.9	5344.7	5321.1	3501.7
77.5°	248.2	249.9	246.5	247.2	276.5	301.5	423.9	2107.1	3606.9	3440.3	1972.9
80°	209.8	211.1	209.8	212.1	240.8	227.6	246.5	1185.4	1594.8	1508.5	701.5
82.5°	158.5	164.2	168.3	177.7	198.3	161.9	164.9	461.7	485.6	462.4	215.2
85°	69.5	84.6	126.8	135.9	149.1	97.1	108.3	188.2	197.6	191.6	78.2
87.5°	18.2	19.9	62.7	78.9	82.6	43.8	56.3	85.7	90.4	85.7	26.0
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°	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2
2.5°	917.3	900.8	871.1	844.8	824.9	811.4	797.9	791.2	787.1	783.1	783.8
5°	946.7	913.3	862.3	826.3	806.0	793.2	786.5	783.8	782.1	778.0	778.0
7.5°	990.8	943.6	873.5	836.4	820.5	810.7	806.7	805.3	803.3	798.6	799.3
10°	1046.5	980.4	896.7	860.7	846.2	835.4	829.6	827.6	823.9	818.5	819.2
12.5°	1111.9	1025.9	927.4	889.7	872.1	857.6	848.2	842.4	836.0	829.0	829.3
15°	1183.4	1075.5	960.5	915.6	891.7	871.4	856.3	846.5	836.4	827.6	827.3
17.5°	1255.9	1123.4	985.8	929.8	897.4	870.8	850.2	835.0	822.5	811.8	810.7
20°	1334.2	1166.5	999.9	928.4	886.6	854.9	827.6	808.7	794.9	784.1	782.4
22.5°	1413.7	1207.0	1002.3	914.6	862.7	823.9	795.2	774.3	760.2	749.0	745.0
25°	1486.6	1238.4	992.5	888.0	829.3	787.5	759.5	738.2	726.8	713.6	709.6
27.5°	1553.0	1260.3	973.0	853.9	791.9	750.7	724.4	706.2	693.7	683.6	680.2
30°	1612.7	1272.1	940.9	813.4	753.4	716.0	693.7	681.2	670.4	657.6	655.3
32.5°	1669.4	1272.1	899.8	769.3	715.3	685.3	672.1	664.4	652.2	639.8	636.4
35°	1726.0	1264.3	851.2	723.1	680.2	663.4	662.7	653.6	635.0	618.2	613.8
37.5°	1785.7	1248.5	796.6	679.9	651.6	653.6	659.3	639.1	612.8	588.8	582.4
40°	1853.2	1226.6	739.9	642.5	627.6	649.2	650.2	618.2	566.9	545.0	539.3
42.5°	1932.4	1204.7	687.3	609.4	608.7	636.1	633.0	573.0	542.3	531.2	528.1
45°	2036.6	1192.2	637.4	578.0	593.9	614.8	603.7	548.0	535.2	528.8	526.1
47.5°	2200.9	1198.6	591.5	553.1	579.1	593.6	549.0	537.9	528.8	521.0	518.4
50°	2406.6	1194.9	554.4	535.9	562.2	571.3	524.4	524.8	520.0	511.3	507.2
52.5°	2561.4	1165.9	530.5	526.1	547.4	531.8	508.9	511.9	509.6	496.8	492.4
55°	2710.8	1140.9	518.4	522.4	536.6	482.6	490.7	498.1	495.8	483.3	481.3
57.5°	2896.6	1136.2	510.9	523.4	527.5	458.0	473.2	482.9	481.3	475.9	474.8
60°	3124.3	1137.5	504.2	525.1	517.3	439.8	456.6	469.1	470.1	469.1	468.4
62.5°	3249.4	1100.8	487.3	520.4	499.5	423.9	439.4	457.6	458.0	460.0	459.7
65°	3143.2	990.8	456.0	503.8	469.4	410.8	424.6	444.5	439.4	448.5	448.5
66°	3040.0	927.4	440.4	493.1	456.6	405.7	419.9	437.7	431.3	443.8	443.8
67.5°	2829.2	820.5	412.5	470.1	438.4	398.6	414.5	426.6	417.9	436.4	435.1
70°	2444.0	634.7	356.1	418.2	408.4	388.2	407.1	404.4	391.5	419.9	414.5
72.5°	2060.6	482.3	286.0	350.1	362.9	375.0	396.6	376.0	359.8	379.7	367.9
75°	1598.9	362.5	226.0	272.2	306.6	354.4	384.1	343.3	320.0	318.0	311.6
77.5°	864.4	248.9	179.1	207.7	243.5	328.8	375.7	308.2	273.2	265.1	260.0
80°	342.3	161.9	130.2	157.5	170.3	291.7	355.5	267.4	225.3	217.2	209.4
82.5°	141.3	95.8	84.0	105.6	111.0	249.6	319.0	219.2	174.0	240.8	255.6
85°	60.7	52.6	49.9	54.6	62.7	175.0	253.9	167.3	187.8	167.6	133.2
87.5°	18.2	22.3	21.2	20.9	22.9	41.8	135.2	93.1	137.9	52.3	39.1
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)