

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: P317606

Luminaire Tested: **GAN-SA2C-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317606
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-SA2C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11981 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

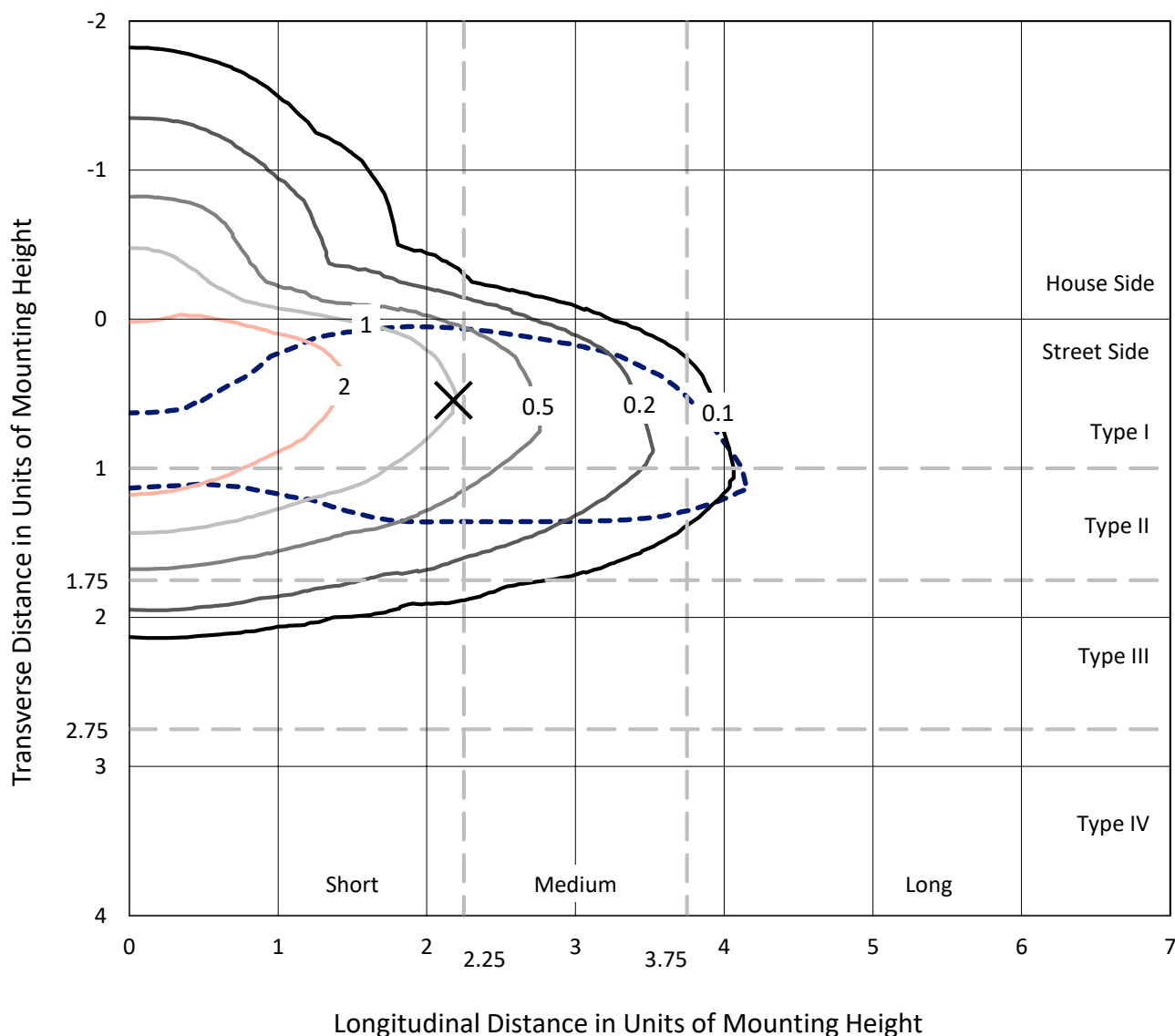
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

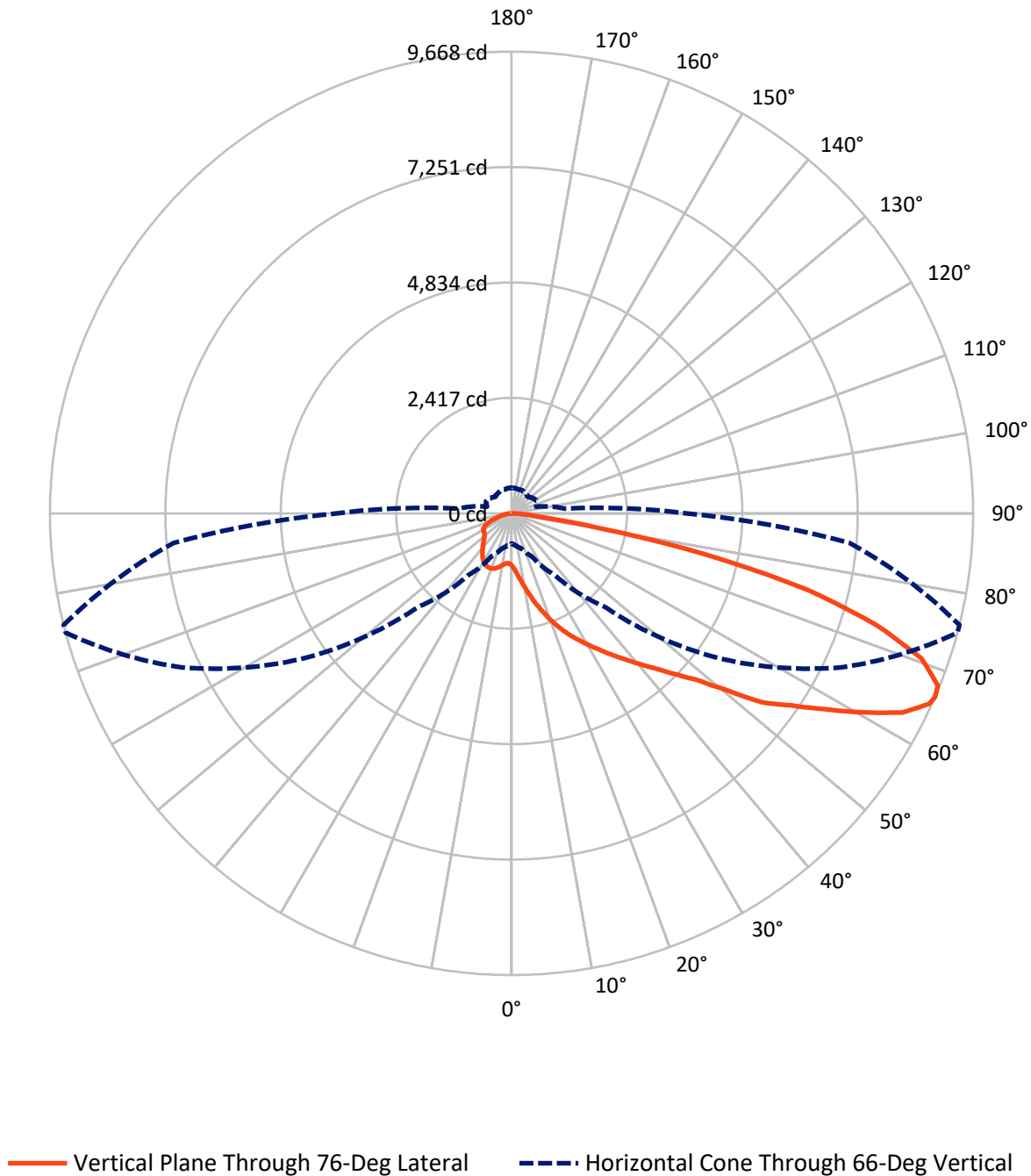
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2016.0	0.0	2016.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	9965.0	0.0	9965.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	11981.0	0.0	11981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	1.1
10°-20°	522.5	4.4
20°-30°	1015.3	8.5
30°-40°	1657.2	13.8
40°-50°	2264.2	18.9
50°-60°	2637.3	22.0
60°-70°	2364.4	19.7
70°-80°	1194.9	10.0
80°-90°	193.0	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°	11981.0	100.0
0°-180°	11981.0	100.0

Coefficient of Utilization



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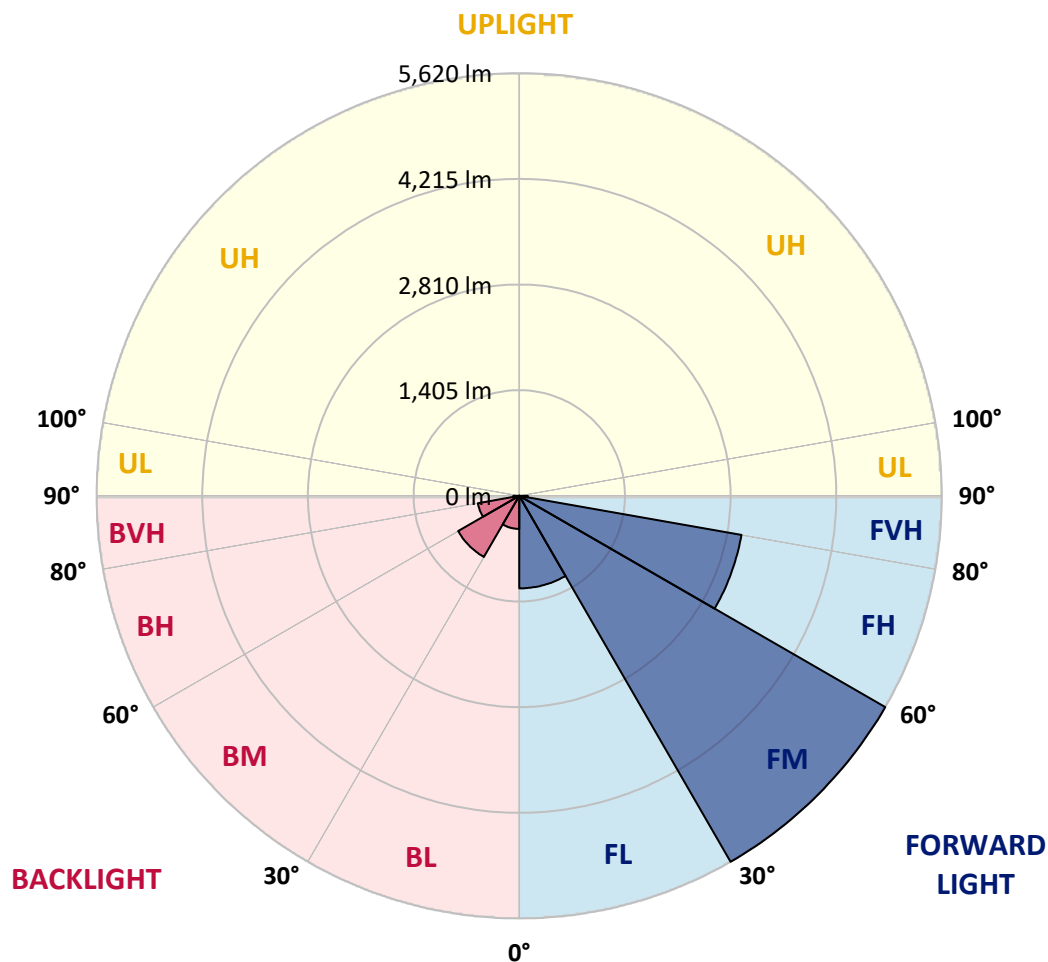
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1230.4	10.3			
FM	(30°-60°)	5619.9	46.9			
FH	(60°-80°)	3000.7	25.0			G2/5000
FVH	(80°-90°)	114.0	1.0			G2/225
BL	(0°-30°)	439.7	3.7	B1/500		
BM	(30°-60°)	938.8	7.8	B1/1000		
BH	(60°-80°)	558.5	4.7	B2/1000		G2/1000
BVH	(80°-90°)	79.0	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1
2.5°	1452.5	1430.5	1428.5	1396.3	1389.0	1327.6	1282.5	1235.3	1181.6	1171.0	1128.7
5°	1865.7	1863.7	1835.6	1783.2	1742.1	1637.1	1533.4	1423.6	1303.2	1283.7	1188.5
7.5°	2237.5	2234.2	2212.7	2156.1	2096.8	1967.8	1819.8	1651.4	1456.1	1427.3	1269.4
10°	2519.8	2518.5	2511.2	2469.7	2419.3	2295.7	2132.1	1902.3	1633.9	1594.4	1370.7
12.5°	2737.8	2740.2	2745.1	2730.5	2706.5	2601.1	2433.5	2168.3	1823.4	1784.4	1483.4
15°	2885.4	2892.7	2918.0	2938.7	2951.3	2886.6	2724.4	2440.5	2035.7	1989.0	1608.3
17.5°	2959.9	2968.0	3011.5	3074.2	3131.9	3125.4	2996.5	2700.0	2239.5	2194.4	1742.5
20°	3024.1	3030.2	3079.0	3154.3	3256.4	3301.5	3229.1	2949.7	2462.8	2409.1	1884.8
22.5°	3210.4	3218.1	3232.8	3275.5	3365.8	3448.8	3413.8	3186.0	2667.4	2617.4	2019.9
25°	3570.0	3579.3	3547.6	3511.4	3528.5	3586.2	3592.8	3401.6	2874.9	2818.3	2165.1
27.5°	4003.2	4016.6	3962.5	3869.3	3788.0	3765.6	3757.9	3578.1	3072.9	3007.4	2308.7
30°	4427.4	4450.6	4380.2	4259.4	4110.1	4005.2	3927.5	3751.0	3268.2	3205.5	2444.1
32.5°	4841.9	4832.5	4730.4	4612.5	4437.6	4306.2	4118.3	3936.4	3487.8	3415.8	2578.7
35°	5125.8	5129.0	5034.2	4894.3	4727.6	4626.7	4373.7	4136.6	3711.9	3645.6	2731.7
37.5°	5367.4	5352.3	5244.9	5114.4	4970.8	4927.7	4672.7	4357.0	3954.8	3882.4	2894.4
40°	5447.9	5430.4	5360.0	5266.1	5151.0	5147.3	5002.5	4606.8	4229.3	4157.7	3077.8
42.5°	5399.1	5376.7	5347.8	5322.2	5286.8	5303.1	5312.5	4899.6	4531.1	4451.0	3290.1
45°	5218.9	5185.1	5205.5	5261.2	5338.1	5430.0	5592.3	5223.8	4869.1	4802.0	3539.5
47.5°	4941.9	4911.4	4974.9	5094.0	5303.1	5535.8	5857.1	5581.7	5272.6	5205.9	3894.6
50°	4552.3	4561.2	4651.9	4868.7	5184.7	5584.6	6183.3	6055.6	5859.1	5796.9	4379.0
52.5°	3912.9	3914.5	4169.9	4525.8	4974.9	5559.3	6364.3	6661.2	6660.0	6584.7	4840.2
55°	3319.0	3355.2	3557.4	4030.4	4634.8	5458.5	6490.8	6955.7	7185.9	7097.6	5270.2
57.5°	2739.0	2760.2	2951.7	3426.8	4149.6	5189.6	6620.5	7309.2	7792.0	7736.2	5804.6
60°	2079.3	2111.8	2309.9	2748.8	3528.9	4712.5	6632.7	7678.1	8516.4	8460.2	6401.3
62.5°	1349.6	1405.7	1591.2	2002.4	2778.0	4026.3	6349.6	7919.3	9202.9	9183.0	6930.9
65°	775.7	818.0	946.9	1264.2	1916.6	3164.9	5676.5	7826.5	9625.5	9614.2	7129.0
66°	633.7	660.1	759.0	988.0	1581.4	2779.3	5285.2	7630.9	9667.4	9667.8	7106.2
67.5°	506.8	518.6	562.9	707.3	1166.9	2202.9	4586.0	7199.3	9615.4	9629.6	6959.4
70°	419.4	425.5	439.3	474.3	637.0	1328.4	3255.2	6077.9	9092.7	9103.7	6386.3
72.5°	376.2	379.9	385.2	390.1	449.4	742.3	1988.2	4862.2	7972.1	7986.4	5513.0
75°	340.8	342.9	342.1	342.5	377.0	473.0	1027.4	3630.2	6446.0	6417.6	4223.2
77.5°	299.4	301.4	297.3	298.1	333.5	363.6	511.3	2541.3	4350.1	4149.2	2379.4
80°	253.0	254.6	253.0	255.8	290.4	274.6	297.3	1429.7	1923.5	1819.4	846.0
82.5°	191.2	198.1	203.0	214.4	239.2	195.2	198.9	556.8	585.7	557.6	259.5
85°	83.8	102.1	152.9	163.9	179.8	117.1	130.6	227.0	238.4	231.0	94.4
87.5°	22.0	24.0	75.7	95.2	99.7	52.9	67.9	103.3	109.0	103.3	31.3
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°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1
2.5°	1106.3	1086.4	1050.6	1018.9	994.9	978.6	962.4	954.2	949.3	944.5	945.3
5°	1141.7	1101.5	1040.0	996.5	972.1	956.7	948.5	945.3	943.2	938.4	938.4
7.5°	1195.0	1138.1	1053.5	1008.7	989.6	977.8	972.9	971.3	968.9	963.2	964.0
10°	1262.1	1182.4	1081.5	1038.0	1020.5	1007.5	1000.6	998.1	993.7	987.2	988.0
12.5°	1341.0	1237.3	1118.5	1073.0	1051.8	1034.3	1023.0	1016.0	1008.3	999.8	1000.2
15°	1427.3	1297.1	1158.4	1104.3	1075.4	1051.0	1032.7	1020.9	1008.7	998.1	997.7
17.5°	1514.7	1354.9	1188.9	1121.4	1082.3	1050.2	1025.4	1007.1	992.0	979.0	977.8
20°	1609.1	1406.9	1206.0	1119.8	1069.3	1031.1	998.1	975.4	958.7	945.7	943.6
22.5°	1705.1	1455.7	1208.8	1103.1	1040.4	993.7	959.1	933.9	916.8	903.4	898.5
25°	1792.9	1493.6	1197.0	1071.0	1000.2	949.7	916.0	890.4	876.5	860.7	855.8
27.5°	1873.0	1520.0	1173.5	1029.9	955.0	905.4	873.7	851.7	836.7	824.5	820.4
30°	1945.0	1534.2	1134.8	981.1	908.7	863.5	836.7	821.6	808.6	793.1	790.3
32.5°	2013.4	1534.2	1085.2	927.8	862.7	826.5	810.6	801.3	786.6	771.6	767.5
35°	2081.7	1524.9	1026.6	872.1	820.4	800.1	799.2	788.3	765.9	745.6	740.3
37.5°	2153.7	1505.8	960.7	820.0	785.8	788.3	795.2	770.8	739.0	710.2	702.4
40°	2235.0	1479.3	892.4	774.8	756.9	783.0	784.2	745.6	683.7	657.3	650.4
42.5°	2330.6	1452.9	828.9	735.0	734.2	767.1	763.5	691.1	654.0	640.6	637.0
45°	2456.3	1437.8	768.7	697.2	716.3	741.5	728.1	661.0	645.5	637.8	634.5
47.5°	2654.4	1445.6	713.4	667.1	698.4	715.9	662.2	648.8	637.8	628.4	625.2
50°	2902.5	1441.1	668.7	646.3	678.0	689.0	632.5	632.9	627.2	616.6	611.7
52.5°	3089.2	1406.1	639.8	634.5	660.1	641.4	613.8	617.4	614.6	599.1	593.8
55°	3269.4	1376.0	625.2	630.0	647.1	582.0	591.8	600.8	597.9	582.9	580.4
57.5°	3493.5	1370.3	616.2	631.3	636.1	552.4	570.7	582.5	580.4	573.9	572.7
60°	3768.1	1371.9	608.1	633.3	623.9	530.4	550.7	565.8	567.0	565.8	565.0
62.5°	3919.0	1327.6	587.7	627.6	602.4	511.3	530.0	551.9	552.4	554.8	554.4
65°	3790.8	1195.0	549.9	607.7	566.2	495.4	512.1	536.1	530.0	541.0	541.0
66°	3666.4	1118.5	531.2	594.7	550.7	489.3	506.4	528.0	520.2	535.3	535.3
67.5°	3412.2	989.6	497.4	567.0	528.8	480.8	499.9	514.5	504.0	526.3	524.7
70°	2947.7	765.5	429.5	504.4	492.6	468.2	490.9	487.7	472.2	506.4	499.9
72.5°	2485.2	581.6	344.9	422.2	437.7	452.3	478.3	453.5	434.0	458.0	443.8
75°	1928.4	437.2	272.5	328.2	369.7	427.5	463.3	414.1	386.0	383.6	375.8
77.5°	1042.5	300.2	216.0	250.6	293.7	396.6	453.1	371.8	329.5	319.7	313.6
80°	412.8	195.2	157.0	189.9	205.4	351.8	428.7	322.5	271.7	261.9	252.6
82.5°	170.4	115.5	101.3	127.3	133.8	301.0	384.8	264.4	209.9	290.4	308.3
85°	73.2	63.5	60.2	65.9	75.7	211.1	306.3	201.7	226.6	202.2	160.7
87.5°	22.0	26.8	25.6	25.2	27.7	50.4	163.1	112.3	166.4	63.0	47.2
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)