

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: P319967

Luminaire Tested: **GAN-SA3C-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319967
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-SA3C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 18687 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

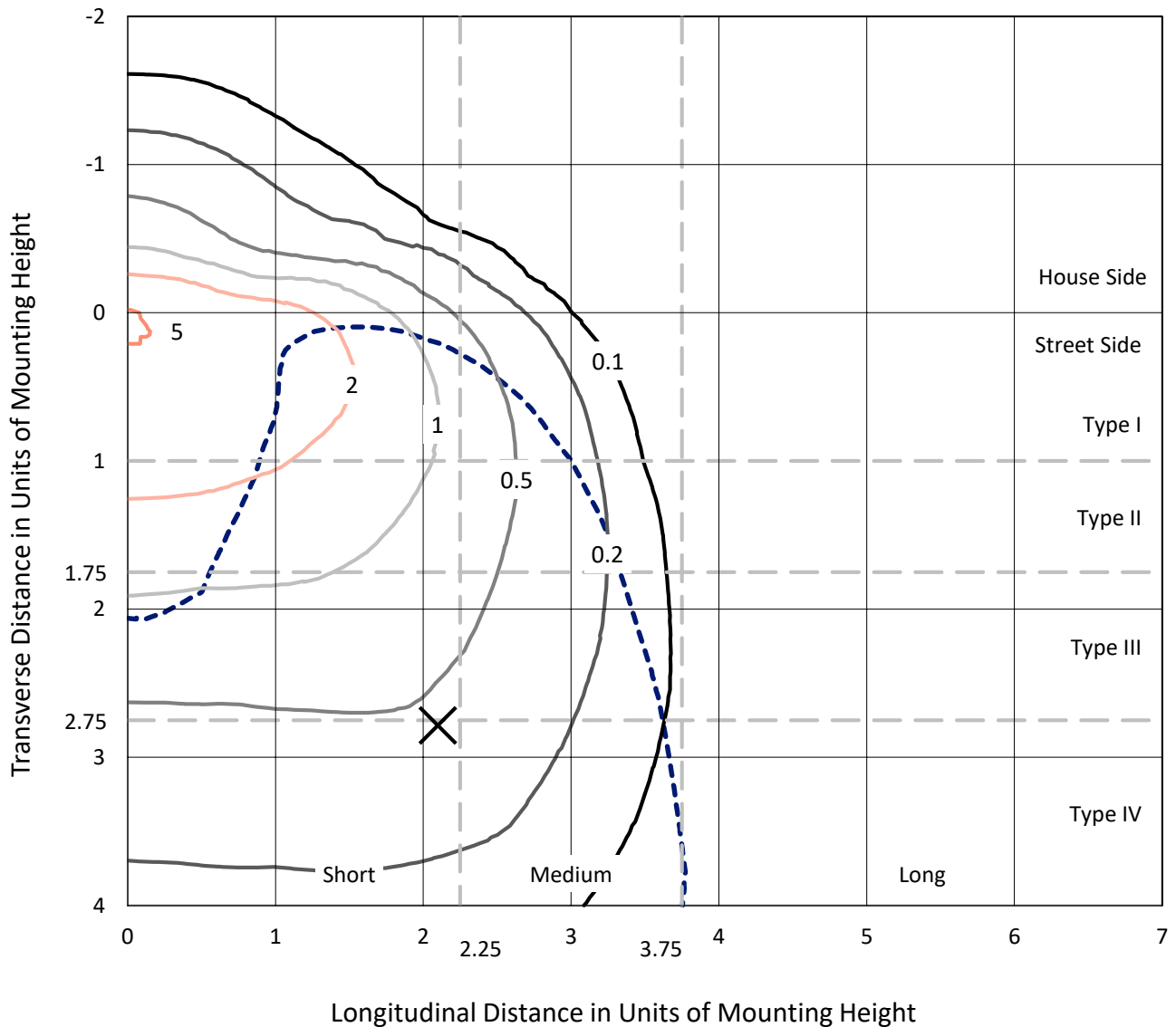
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GAN-SA3C-730-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

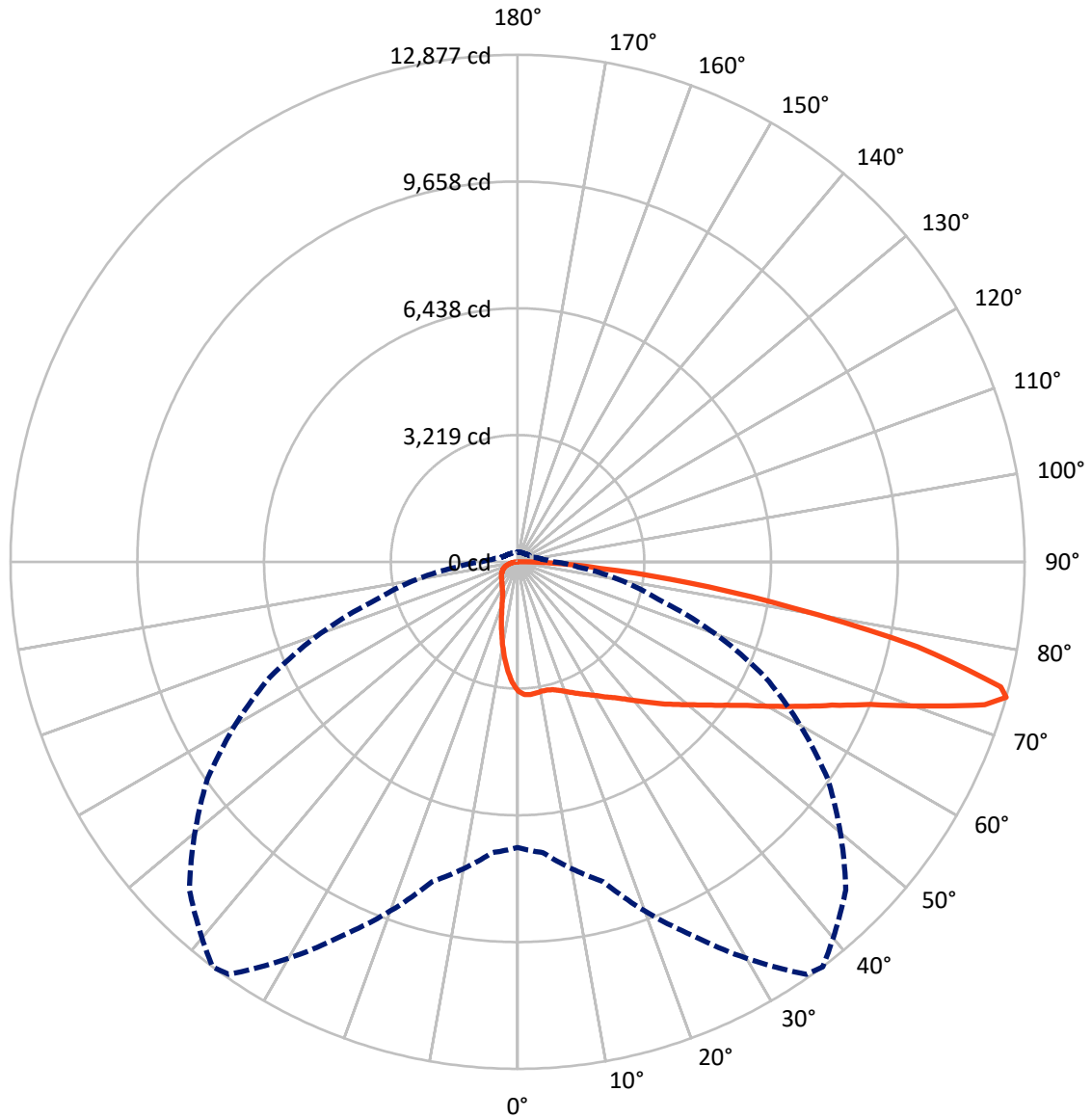
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2571.2	0.0	2571.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	16115.8	0.0	16115.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	18687.0	0.0	18687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.9	1.6
10°-20°	743.2	4.0
20°-30°	1145.2	6.1
30°-40°	1665.2	8.9
40°-50°	2450.9	13.1
50°-60°	3441.9	18.4
60°-70°	4356.3	23.3
70°-80°	3835.9	20.5
80°-90°	758.4	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°	18687.0	100.0
0°-180°	18687.0	100.0

Coefficient of Utilization

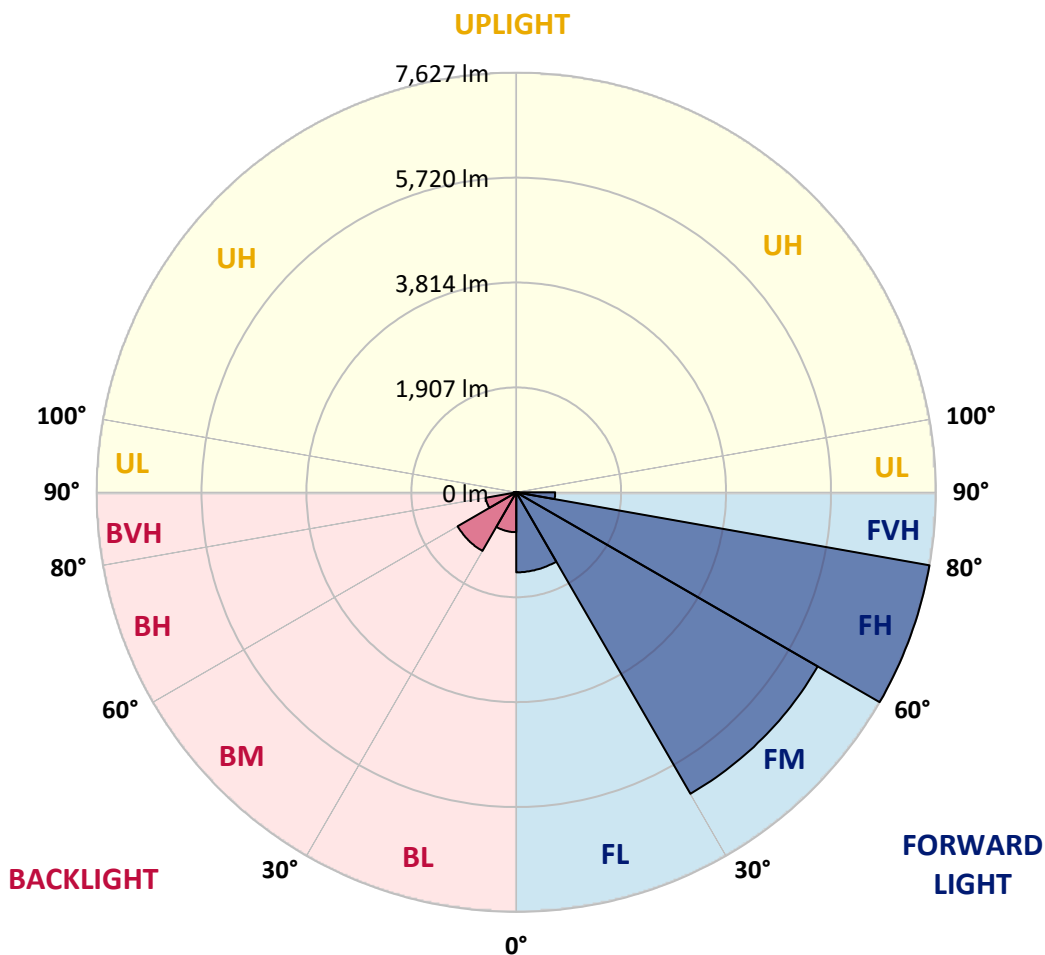


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1454.1	7.8			
FM (30°-60°)	6327.6	33.9			
FH (60°-80°)	7627.1	40.8			G4/12000
FVH (80°-90°)	707.1	3.8			G4/750
BL (0°-30°)	724.2	3.9	B2/1000		
BM (30°-60°)	1230.4	6.6	B2/2500		
BH (60°-80°)	565.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	51.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3292.6	3292.6	3292.6	3292.6	3292.6	3292.6	3292.6	3292.6	3292.6	3292.6	3292.6
2.5°	3405.1	3405.8	3405.1	3399.9	3387.4	3376.8	3368.3	3355.8	3328.1	3307.1	3275.5
5°	3437.4	3433.4	3430.8	3420.9	3401.2	3389.3	3372.9	3349.2	3303.8	3261.6	3210.3
7.5°	3422.3	3417.6	3411.7	3399.9	3377.5	3367.6	3344.6	3313.6	3259.0	3203.7	3130.0
10°	3375.5	3374.2	3371.6	3368.9	3349.8	3341.9	3320.9	3288.0	3234.0	3166.9	3080.6
12.5°	3323.5	3326.8	3337.3	3351.2	3342.6	3338.7	3325.5	3303.1	3247.8	3175.4	3071.4
15°	3290.6	3299.8	3328.1	3364.3	3371.6	3370.3	3367.0	3352.5	3293.9	3213.6	3092.5
17.5°	3279.4	3294.6	3348.5	3408.4	3429.5	3434.1	3435.4	3410.4	3345.2	3260.3	3114.2
20°	3299.8	3318.9	3397.9	3480.2	3513.7	3516.4	3510.5	3467.0	3393.9	3300.5	3126.0
22.5°	3361.7	3378.8	3477.5	3570.4	3608.5	3612.5	3594.7	3528.9	3445.3	3347.9	3142.5
25°	3480.8	3501.9	3600.6	3693.5	3713.2	3713.9	3688.2	3606.6	3512.4	3414.4	3178.0
27.5°	3636.2	3657.2	3746.1	3837.0	3826.4	3820.5	3785.6	3704.0	3600.0	3505.9	3241.2
30°	3809.3	3832.3	3916.6	3981.1	3956.1	3944.2	3915.9	3810.6	3721.8	3630.9	3338.0
32.5°	3988.3	4009.4	4083.1	4127.2	4095.6	4090.4	4047.6	3951.5	3880.4	3821.8	3494.7
35°	4172.0	4187.1	4259.5	4284.6	4242.4	4241.1	4229.3	4141.1	4096.3	4123.9	3722.4
37.5°	4359.6	4363.6	4425.4	4426.7	4414.2	4419.5	4432.0	4376.7	4389.2	4475.5	4018.6
40°	4526.8	4537.3	4582.1	4595.9	4617.6	4636.1	4698.6	4662.4	4759.2	4911.9	4387.3
42.5°	4650.6	4671.0	4742.7	4778.3	4848.7	4877.6	4965.9	4999.4	5194.3	5423.3	4825.6
45°	4755.2	4786.8	4902.0	4975.1	5094.2	5144.9	5271.3	5383.8	5686.0	5978.2	5287.1
47.5°	4868.4	4908.6	5052.7	5192.3	5354.2	5411.5	5641.2	5809.7	6210.6	6536.4	5722.2
50°	5035.0	5065.9	5206.8	5426.0	5628.1	5701.8	6019.7	6261.3	6743.8	7068.3	6099.4
52.5°	5267.3	5255.5	5374.6	5682.0	5953.2	6044.1	6423.9	6741.8	7284.2	7549.5	6418.0
55°	5501.0	5481.3	5564.9	5949.9	6332.4	6427.8	6868.9	7224.3	7798.3	7982.6	6662.2
57.5°	5761.0	5723.5	5793.9	6252.1	6764.2	6878.1	7367.2	7737.1	8303.9	8332.8	6817.5
60°	6028.9	5978.2	6057.2	6626.6	7312.5	7446.8	7950.4	8237.4	8780.4	8613.2	6867.5
62.5°	6263.3	6227.7	6349.5	7044.6	7930.6	8078.1	8523.0	8769.2	9250.4	8729.7	6687.2
65°	6468.0	6473.9	6684.6	7514.6	8619.8	8777.1	9180.0	9424.9	9620.4	8660.6	6265.2
67.5°	6712.2	6745.8	7105.2	8133.4	9487.4	9659.8	10135.8	10139.7	9827.0	8255.1	5434.5
70°	7068.3	7137.4	7683.8	8991.7	10721.0	10957.9	11325.2	10559.7	9536.8	7155.9	4276.0
72.5°	7384.3	7513.3	8299.2	9973.8	12224.4	12404.1	12021.0	10317.4	8323.6	5362.8	2663.9
74°	7255.9	7415.9	8411.1	10457.7	12790.5	12876.7	11786.0	9610.5	6940.0	3713.9	1548.2
75°	6979.4	7153.2	8247.9	10453.0	12718.7	12670.7	11218.6	8802.8	5715.6	2533.0	1030.2
77.5°	5632.7	5816.3	6949.8	8958.8	10428.7	10383.3	8617.8	5905.2	2503.3	830.7	523.3
80°	3274.8	3415.0	4314.2	5689.3	7032.1	7114.4	5667.6	2922.0	984.7	466.7	354.8
82.5°	1454.7	1551.5	2084.0	2904.2	4243.8	4349.7	2968.1	1531.1	608.2	283.7	213.3
85°	954.5	1026.2	1265.2	1383.0	2020.8	2093.2	1452.8	1192.1	401.5	156.0	156.7
87.5°	686.6	755.7	940.0	820.8	927.5	878.1	790.6	1103.2	161.3	88.9	52.7
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°	3292.6	3292.6	3292.6	3292.6	3292.6	3292.6	3292.6	3292.6	3292.6	3292.6	3292.6
2.5°	3261.6	3251.1	3227.4	3182.6	3157.6	3136.6	3101.7	3081.3	3072.1	3071.4	3075.4
5°	3180.7	3156.3	3095.1	3020.1	2960.2	2905.5	2837.7	2796.9	2768.0	2750.8	2755.4
7.5°	3086.5	3048.4	2952.3	2832.5	2736.4	2630.4	2525.7	2463.2	2414.5	2378.3	2384.8
10°	3022.0	2969.4	2829.2	2656.7	2496.8	2342.7	2198.6	2112.3	2043.9	1991.2	1995.2
12.5°	3000.3	2929.2	2735.0	2504.6	2280.2	2069.5	1881.3	1749.0	1678.5	1618.6	1623.2
15°	3003.6	2908.2	2656.0	2367.7	2085.3	1820.1	1591.7	1437.0	1341.5	1300.0	1300.7
17.5°	3006.2	2883.8	2573.1	2220.9	1892.5	1587.0	1338.9	1182.2	1092.0	1053.9	1054.5
20°	2997.7	2844.3	2470.4	2052.4	1691.0	1373.1	1132.9	999.9	931.4	901.8	901.8
22.5°	2986.5	2797.6	2354.6	1883.3	1492.3	1187.5	985.4	884.0	844.5	824.8	824.1
25°	2991.8	2762.7	2236.1	1709.5	1309.3	1039.4	887.3	820.2	793.9	781.3	780.7
27.5°	3020.1	2746.2	2126.8	1536.4	1149.3	928.1	821.5	774.1	757.0	749.1	749.1
30°	3071.4	2746.2	2012.9	1388.9	1016.3	845.9	770.8	738.6	726.7	721.4	721.4
32.5°	3160.9	2761.4	1903.0	1242.8	910.4	781.3	728.7	707.0	697.7	695.1	695.1
35°	3315.0	2812.7	1795.7	1104.5	824.8	728.7	688.5	676.0	669.4	668.8	670.8
37.5°	3531.5	2917.4	1695.0	1002.5	764.2	685.9	655.0	645.1	641.1	644.4	647.1
40°	3804.0	3059.6	1603.5	910.4	718.2	651.7	624.0	617.4	615.5	620.1	624.0
42.5°	4133.2	3251.8	1528.5	843.9	682.6	622.7	597.7	589.8	587.8	593.1	598.4
45°	4489.3	3458.5	1475.8	794.5	655.0	601.0	574.7	566.1	562.1	564.8	570.7
47.5°	4813.1	3654.0	1454.7	759.6	628.6	582.6	554.2	543.7	537.1	535.8	540.4
50°	5086.3	3799.4	1464.6	738.6	607.6	562.1	534.5	522.7	512.8	506.9	510.1
52.5°	5285.1	3890.9	1473.8	729.3	591.1	539.8	512.8	501.6	488.4	478.5	478.5
55°	5429.3	3912.0	1453.4	722.1	578.6	515.4	488.4	477.9	464.7	453.5	452.2
57.5°	5485.9	3852.7	1377.7	711.6	570.0	492.4	462.8	454.9	443.7	430.5	429.8
60°	5409.5	3669.8	1231.6	689.2	558.9	473.3	437.1	431.8	426.5	414.0	413.4
62.5°	5102.8	3268.2	1042.7	643.8	536.5	452.9	413.4	416.0	416.7	408.1	406.8
65°	4546.5	2716.6	858.4	584.5	502.9	428.5	389.0	401.5	408.8	407.5	405.5
67.5°	3738.2	2114.3	727.4	522.0	458.8	395.0	362.7	377.2	383.1	387.7	386.4
70°	2774.5	1490.9	601.6	456.2	405.5	355.5	328.5	335.7	331.8	337.0	339.0
72.5°	1546.9	894.6	490.4	390.3	350.2	309.4	290.3	289.0	280.4	280.4	280.4
74°	928.1	656.3	431.2	349.5	316.6	279.1	262.6	256.7	248.8	249.5	248.8
75°	746.5	564.1	395.6	322.5	292.9	261.3	244.9	237.0	231.0	231.0	230.4
77.5°	471.3	428.5	318.6	256.7	234.3	215.2	204.1	193.5	193.5	192.9	192.2
80°	356.1	341.0	248.2	194.2	179.7	165.2	158.0	153.4	153.4	155.3	154.7
82.5°	244.2	256.7	174.4	135.6	128.4	117.8	116.5	117.2	115.2	112.6	111.9
85°	178.4	192.9	117.8	85.6	78.3	71.7	77.0	79.6	76.4	70.4	67.8
87.5°	68.5	126.4	63.2	35.5	32.9	28.3	32.9	34.2	36.9	29.0	29.6
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)