

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: P323798

Luminaire Tested: **GAN-SA4B-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17037 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

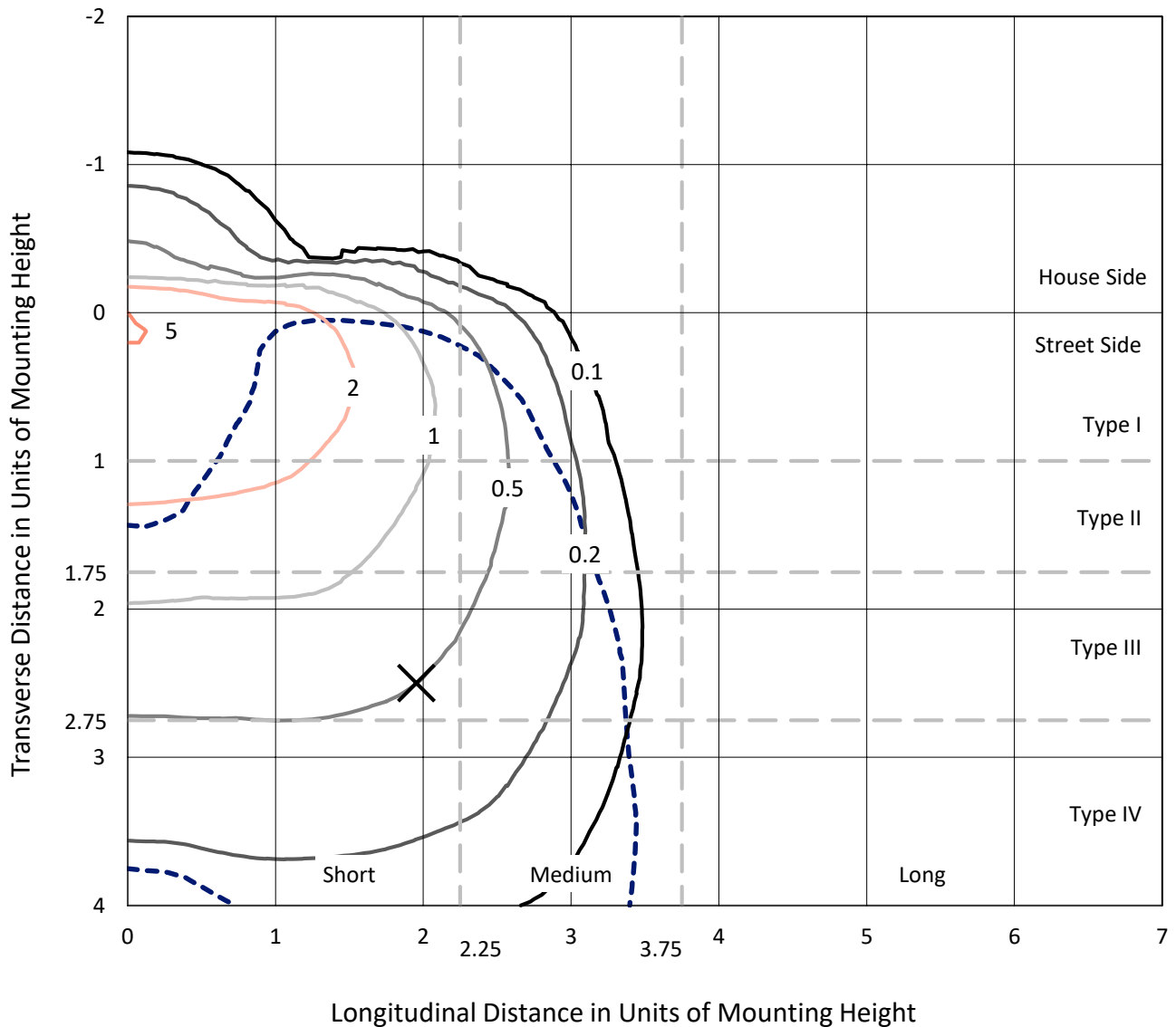
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

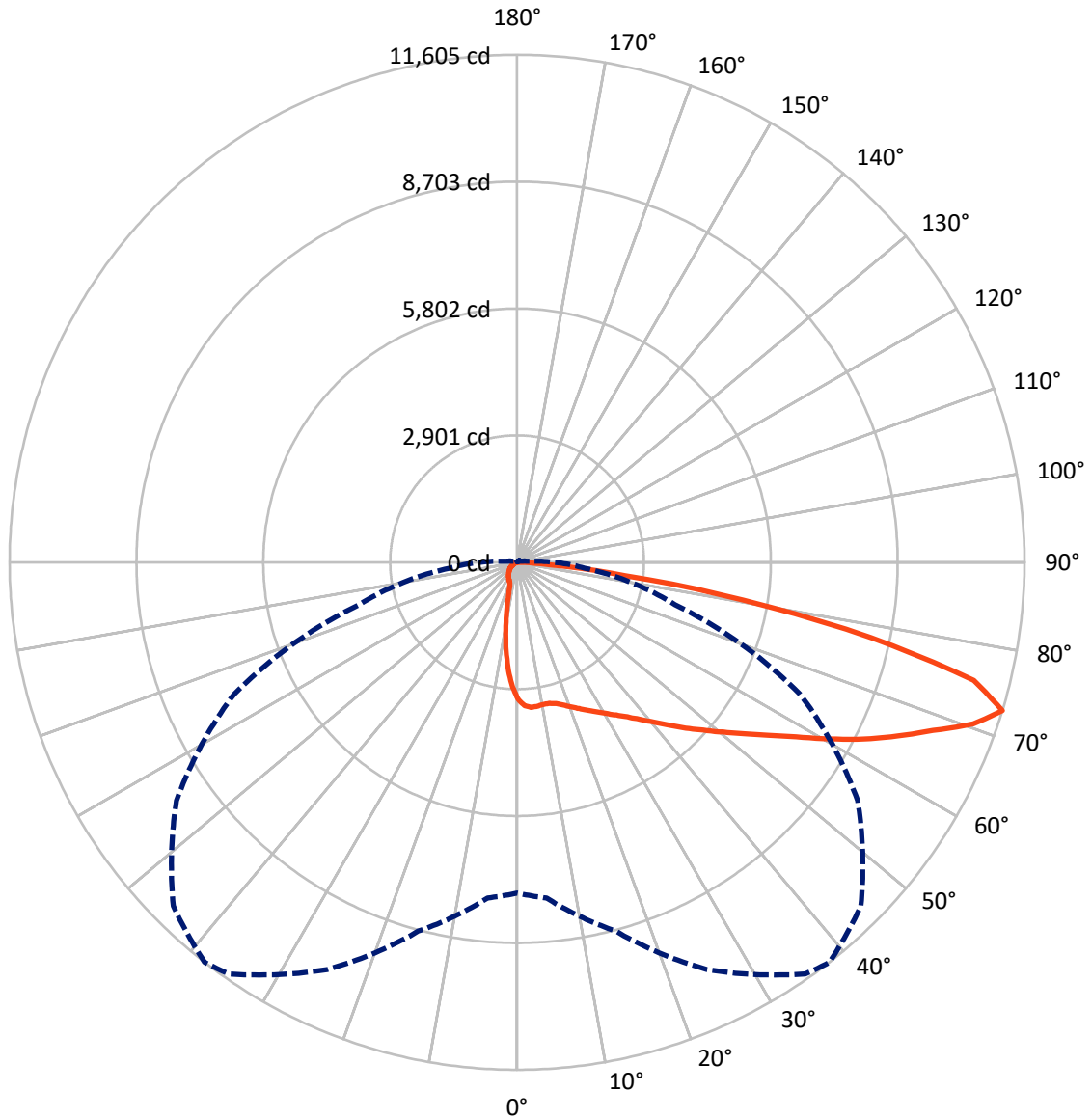
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1433.7	0.0	1433.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15603.3	0.0	15603.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	17037.0	0.0	17037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.0	1.6
10°-20°	652.9	3.8
20°-30°	1038.4	6.1
30°-40°	1561.1	9.2
40°-50°	2381.5	14.0
50°-60°	3365.9	19.8
60°-70°	4222.0	24.8
70°-80°	3156.9	18.5
80°-90°	391.4	2.3
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°	17037.0	100.0
0°-180°	17037.0	100.0

Coefficient of Utilization

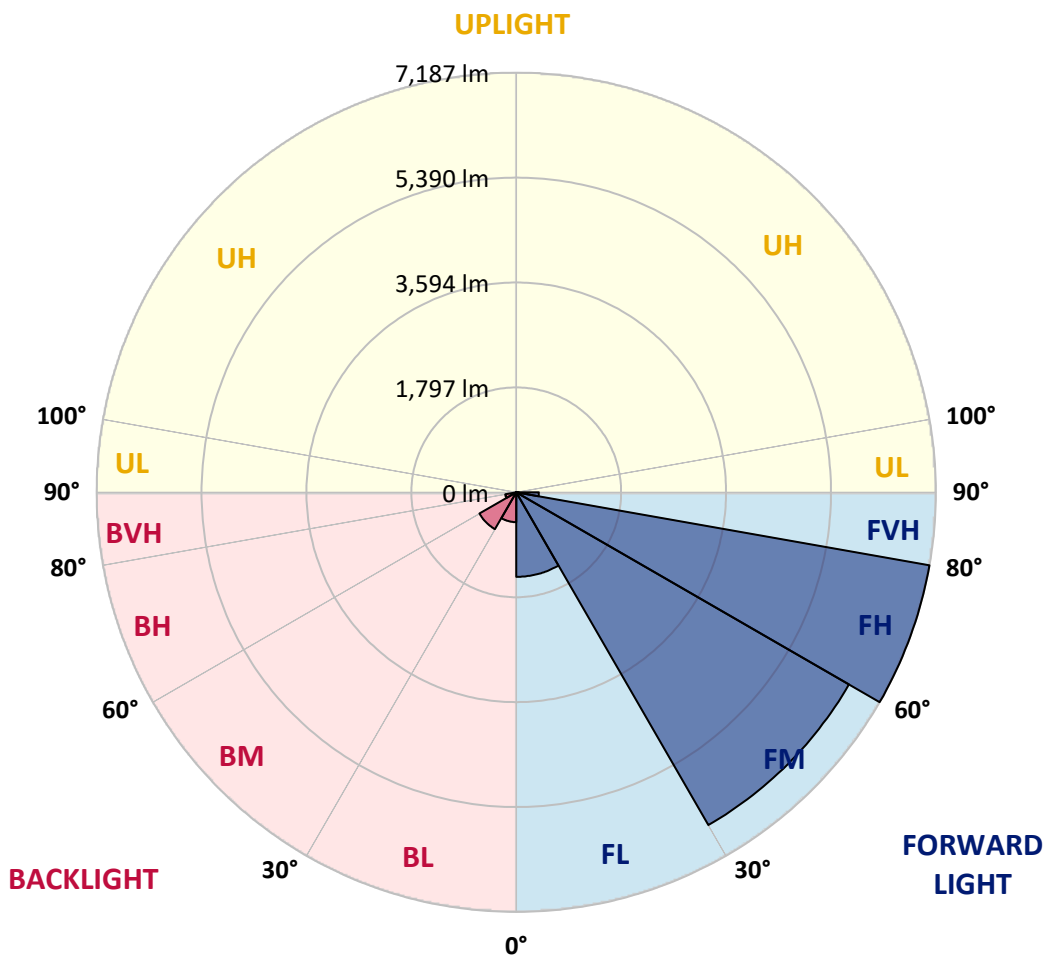


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.7	8.5			
FM (30°-60°)	6580.4	38.6			
FH (60°-80°)	7187.3	42.2			G3/7500
FVH (80°-90°)	387.8	2.3			G3/500
BL (0°-30°)	510.5	3.0	B2/1000		
BM (30°-60°)	728.1	4.3	B1/1000		
BH (60°-80°)	191.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3133.0	3133.0	3133.0	3133.0	3133.0	3133.0	3133.0	3133.0	3133.0	3133.0	3133.0
2.5°	3325.5	3326.2	3318.4	3305.7	3289.4	3280.9	3266.8	3244.1	3220.1	3176.9	3130.2
5°	3393.4	3393.4	3383.5	3366.5	3340.4	3332.6	3305.7	3269.6	3220.1	3150.0	3071.5
7.5°	3386.4	3387.8	3374.3	3356.6	3330.5	3323.4	3290.8	3250.5	3188.9	3104.0	3003.6
10°	3349.6	3353.1	3342.5	3334.0	3309.9	3302.2	3271.7	3231.4	3169.8	3079.3	2963.9
12.5°	3312.1	3315.6	3319.1	3326.9	3312.1	3309.2	3285.2	3251.2	3192.5	3098.4	2968.2
15°	3288.0	3295.1	3320.5	3351.0	3354.5	3351.7	3336.1	3304.3	3244.8	3147.2	2998.6
17.5°	3288.0	3299.3	3352.4	3410.4	3430.9	3433.1	3419.6	3375.0	3304.3	3199.6	3026.9
20°	3315.6	3331.2	3413.9	3496.0	3530.0	3530.0	3503.8	3441.5	3358.8	3247.0	3046.0
22.5°	3386.4	3406.9	3510.9	3605.7	3641.8	3634.0	3598.6	3508.1	3415.4	3300.7	3070.1
25°	3525.7	3541.3	3649.6	3745.1	3767.0	3749.3	3704.8	3588.7	3487.5	3373.6	3113.9
27.5°	3705.5	3707.6	3819.4	3900.0	3886.6	3874.6	3818.7	3689.9	3591.5	3477.6	3189.7
30°	3902.9	3902.9	4001.2	4062.8	4021.7	4011.8	3955.9	3812.3	3724.6	3619.1	3297.2
32.5°	4093.9	4102.4	4182.4	4221.3	4175.3	4165.4	4110.9	3967.3	3901.5	3834.9	3464.9
35°	4278.6	4284.9	4360.7	4381.9	4338.0	4340.8	4301.9	4180.2	4155.5	4147.0	3717.5
37.5°	4457.6	4459.0	4536.1	4549.6	4527.6	4551.7	4555.2	4447.7	4493.7	4562.3	4073.4
40°	4621.0	4622.4	4698.9	4733.5	4771.0	4802.2	4829.8	4772.5	4924.6	5083.8	4497.2
42.5°	4751.9	4766.8	4863.7	4929.5	5028.6	5088.0	5163.0	5160.2	5437.6	5676.7	5009.5
45°	4867.3	4892.7	5027.9	5143.2	5313.0	5407.8	5525.3	5617.3	6014.9	6336.9	5528.1
47.5°	5019.4	5043.4	5197.7	5386.6	5613.0	5737.6	5932.1	6131.0	6649.6	6985.0	6034.7
50°	5233.8	5223.2	5375.3	5646.3	5937.1	6100.5	6377.9	6675.8	7279.3	7549.6	6332.6
52.5°	5462.3	5458.1	5570.6	5928.6	6319.2	6510.2	6876.7	7239.0	7881.4	7938.8	6469.2
55°	5745.3	5714.9	5809.7	6250.5	6772.7	6977.9	7409.5	7796.5	8361.2	8158.1	6537.8
57.5°	6041.8	5991.6	6082.1	6609.3	7284.3	7527.0	7999.6	8339.9	8680.3	8308.1	6537.1
60°	6348.2	6288.7	6396.3	7057.8	7919.6	8200.5	8639.2	8707.2	8978.1	8383.8	6489.0
62.5°	6604.3	6568.9	6728.8	7537.6	8629.3	8905.3	9122.5	9041.1	9229.3	8442.5	6376.5
65°	6875.3	6877.4	7135.7	8097.2	9383.6	9569.7	9588.1	9474.1	9439.5	8430.5	5995.8
67.5°	7241.8	7275.8	7706.7	8857.2	10117.3	10260.9	10259.5	9943.3	9593.0	7952.2	5151.7
70°	7629.6	7709.5	8364.7	9726.7	10918.3	11064.0	10989.0	10241.8	9032.6	6430.2	3646.0
72.5°	7564.5	7703.1	8730.5	10275.1	11493.5	11604.6	11117.1	9508.1	7139.2	3737.3	1552.4
75°	5835.9	5996.5	8005.3	9731.7	10890.0	10790.2	9552.0	7398.9	3901.5	1042.9	349.5
77.5°	3082.8	3168.4	5288.3	7413.7	8491.4	8282.6	6728.8	4104.5	1189.4	258.3	157.1
80°	1614.6	1634.4	2304.5	4206.4	5240.9	5242.3	3987.8	1802.8	490.3	132.3	105.4
82.5°	864.6	881.6	1217.7	1943.7	2746.0	2489.2	1526.9	992.0	285.1	75.0	101.2
85°	208.0	211.6	690.6	888.0	1079.7	771.2	453.5	832.8	77.1	43.9	82.1
87.5°	80.0	81.4	256.1	384.2	275.2	178.3	212.3	310.6	9.9	17.0	12.7
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°	3133.0	3133.0	3133.0	3133.0	3133.0	3133.0	3133.0	3133.0	3133.0	3133.0	3133.0
2.5°	3101.9	3083.5	3038.2	2980.9	2930.0	2893.2	2838.0	2801.9	2777.9	2777.1	2768.0
5°	3023.4	2985.9	2888.2	2772.2	2666.8	2572.0	2460.2	2371.7	2305.9	2295.3	2272.7
7.5°	2939.2	2877.6	2727.6	2546.5	2369.6	2189.9	1981.2	1851.7	1740.6	1687.5	1681.9
10°	2887.5	2801.2	2588.2	2326.4	2049.1	1756.9	1483.7	1294.8	1158.3	1119.4	1090.3
12.5°	2876.9	2763.0	2480.7	2119.8	1723.6	1337.3	1035.2	834.2	725.2	690.6	681.4
15°	2887.5	2745.3	2390.1	1915.3	1393.9	948.8	694.8	578.1	537.0	527.1	526.4
17.5°	2893.9	2724.1	2287.5	1688.2	1074.1	677.8	532.1	498.1	491.7	491.0	492.5
20°	2893.2	2691.5	2165.1	1434.9	798.8	532.8	481.1	474.1	472.6	473.4	472.6
22.5°	2888.2	2653.3	2030.7	1173.8	603.5	476.2	459.2	455.0	454.2	454.2	454.2
25°	2897.4	2622.9	1882.8	924.1	497.4	450.0	439.4	435.9	435.1	435.1	433.7
27.5°	2930.7	2605.9	1720.8	711.1	449.3	426.7	418.2	417.5	415.3	414.6	416.0
30°	2984.5	2605.9	1543.2	553.3	420.3	402.6	396.2	394.8	394.1	393.4	394.1
32.5°	3079.3	2625.7	1349.3	459.9	392.7	375.7	371.5	373.6	371.5	371.5	371.5
35°	3250.5	2685.2	1146.2	401.2	363.7	349.5	345.3	348.1	346.7	346.7	346.0
37.5°	3500.3	2795.5	941.8	365.8	338.2	323.4	317.7	321.9	320.5	320.5	319.8
40°	3804.5	2956.2	747.2	338.9	313.4	297.9	292.9	295.0	291.5	291.5	292.9
42.5°	4180.2	3159.9	577.4	312.7	288.7	273.8	271.0	268.9	262.5	259.0	259.7
45°	4597.7	3372.2	450.0	287.3	265.3	253.3	249.1	243.4	232.8	225.7	226.4
47.5°	4970.6	3535.6	365.8	262.5	244.1	234.9	228.5	217.9	202.4	193.9	194.6
50°	5166.6	3560.4	311.3	237.7	224.3	215.1	205.9	189.6	171.2	162.0	161.3
52.5°	5216.8	3444.4	271.0	215.1	204.5	193.9	181.8	159.9	139.4	129.5	128.1
55°	5235.2	3267.5	234.9	193.9	183.3	171.2	155.7	130.9	111.8	101.9	101.2
57.5°	5174.3	3003.6	206.6	174.8	162.0	147.2	128.1	104.7	86.3	78.5	78.5
60°	5039.2	2646.3	184.7	154.2	140.1	123.1	103.3	81.4	64.4	58.0	58.0
62.5°	4769.6	2183.5	164.2	133.0	119.6	101.9	83.5	61.6	45.3	41.7	42.5
65°	4260.9	1656.4	143.6	113.9	101.9	84.2	65.1	43.9	30.4	30.4	31.8
67.5°	3474.8	1150.5	122.4	96.9	87.7	68.6	49.5	30.4	21.2	24.1	26.9
70°	2300.3	645.3	104.7	80.0	75.0	54.5	36.8	20.5	17.0	22.6	27.6
72.5°	868.2	251.2	87.7	64.4	65.1	41.7	26.2	15.6	15.6	24.8	32.5
75°	242.0	123.1	63.0	47.4	50.9	30.4	19.1	13.4	14.9	28.3	38.2
77.5°	142.2	90.6	41.0	27.6	34.7	21.2	12.7	10.6	12.7	24.1	36.8
80°	114.6	48.1	24.1	14.2	19.1	12.0	8.5	6.4	3.5	9.2	19.1
82.5°	114.6	29.0	11.3	9.9	9.9	6.4	4.2	2.8	0.7	0.0	5.0
85°	77.1	12.0	7.1	6.4	5.0	2.1	1.4	0.7	0.0	0.0	0.0
87.5°	12.7	5.0	2.8	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
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)