

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: P323799

Luminaire Tested: **GAN-SA5B-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323799
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-SA5B-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 21110 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

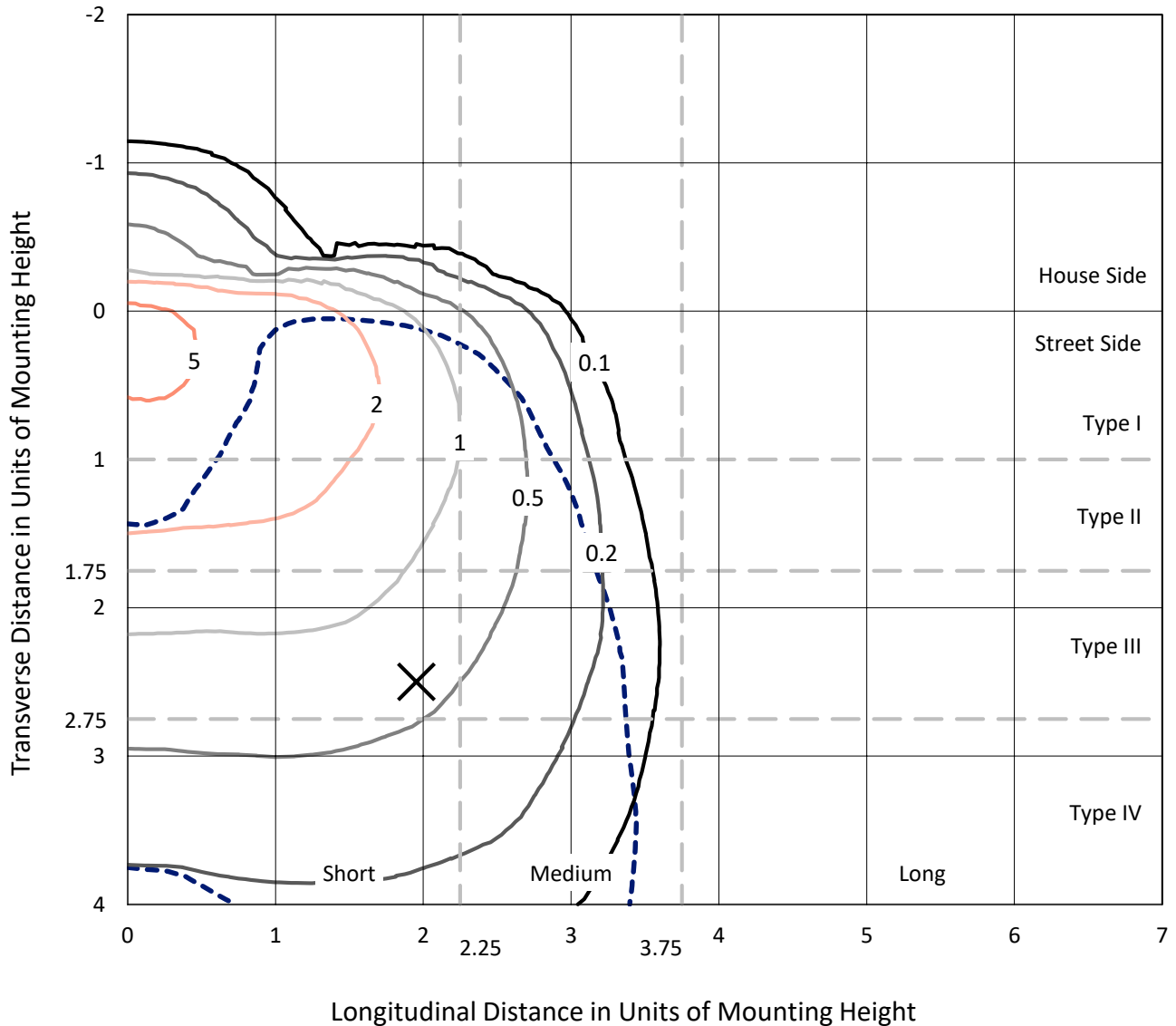
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

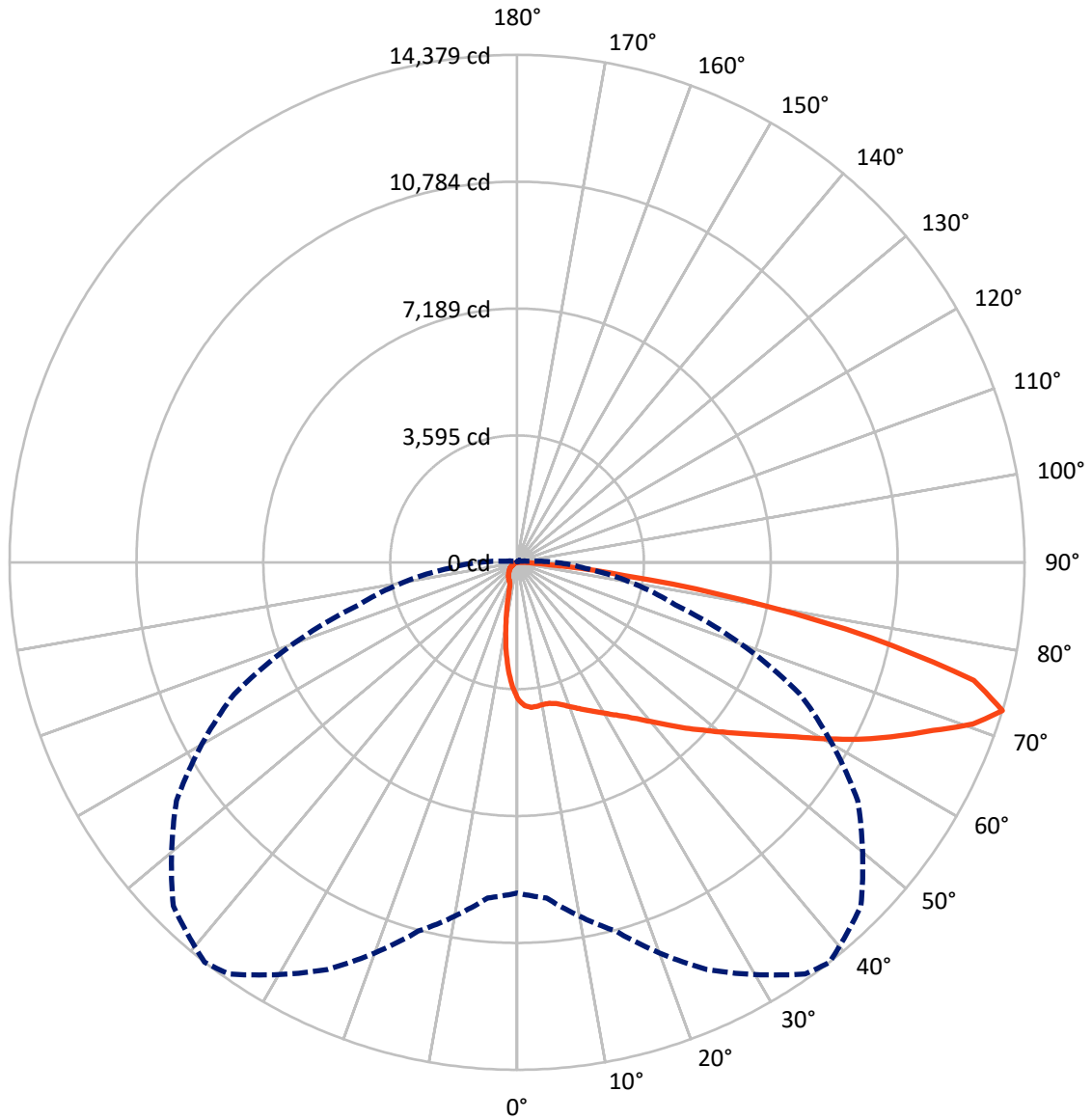
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GAN-SA5B-730-U-SL4-HSS

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	1776.5	0.0	1776.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	19333.5	0.0	19333.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	21110.0	0.0	21110.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.8	1.6
10°-20°	808.9	3.8
20°-30°	1286.6	6.1
30°-40°	1934.3	9.2
40°-50°	2950.9	14.0
50°-60°	4170.6	19.8
60°-70°	5231.3	24.8
70°-80°	3911.6	18.5
80°-90°	485.0	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°	21110.0	100.0
0°-180°	21110.0	100.0



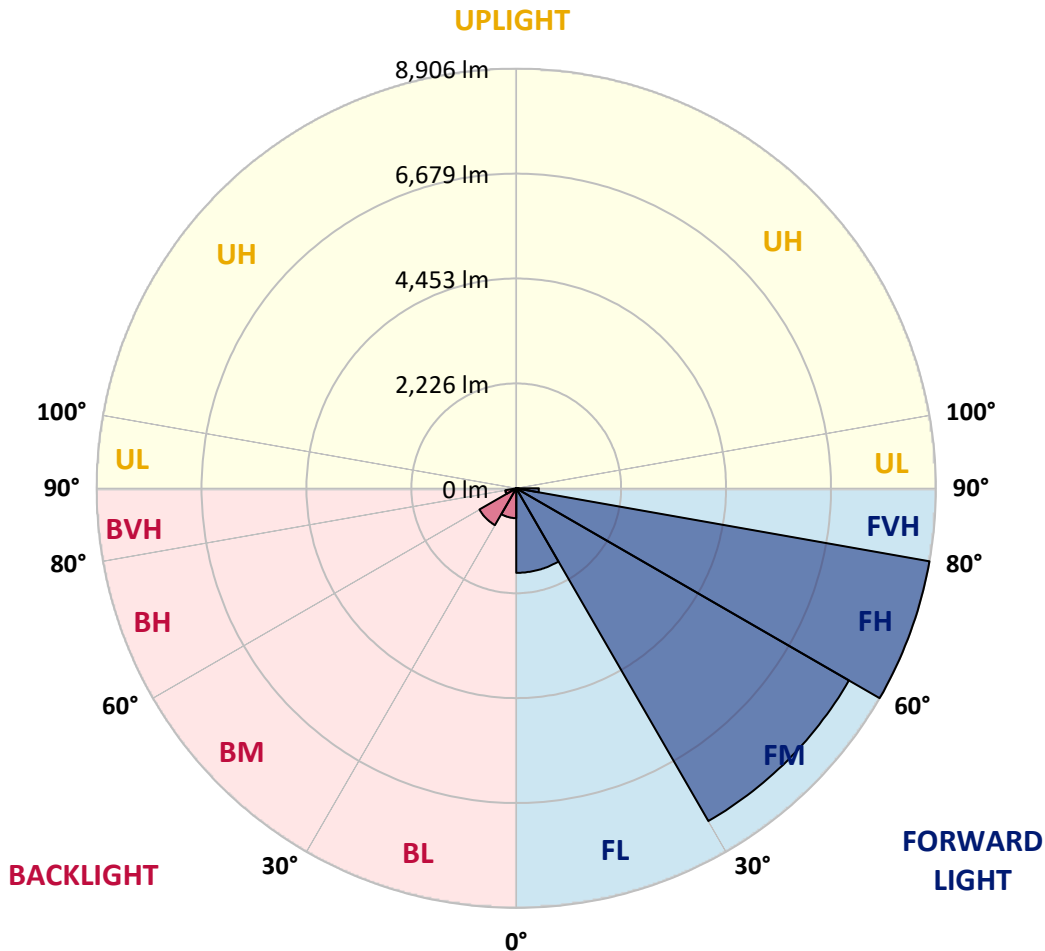
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1793.8	8.5			
FM (30°-60°)	8153.6	38.6			
FH (60°-80°)	8905.6	42.2			G4/12000
FVH (80°-90°)	480.5	2.3			G3/500
BL (0°-30°)	632.5	3.0	B2/1000		
BM (30°-60°)	902.1	4.3	B1/1000		
BH (60°-80°)	237.3	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1
2.5°	4120.5	4121.4	4111.8	4096.0	4075.8	4065.3	4047.8	4019.7	3989.9	3936.4	3878.6
5°	4204.7	4204.7	4192.4	4171.4	4138.9	4129.3	4096.0	4051.3	3989.9	3903.1	3805.8
7.5°	4195.9	4197.7	4181.0	4159.1	4126.7	4117.9	4077.6	4027.6	3951.3	3846.1	3721.6
10°	4150.3	4154.7	4141.6	4131.0	4101.2	4091.6	4053.9	4003.9	3927.6	3815.4	3672.5
12.5°	4103.9	4108.2	4112.6	4122.3	4103.9	4100.4	4070.6	4028.5	3955.7	3839.1	3677.8
15°	4074.1	4082.8	4114.4	4152.1	4156.5	4153.0	4133.7	4094.2	4020.6	3899.6	3715.5
17.5°	4074.1	4088.1	4153.8	4225.7	4251.2	4253.8	4237.1	4181.9	4094.2	3964.5	3750.6
20°	4108.2	4127.5	4230.1	4331.8	4373.9	4373.9	4341.5	4264.3	4161.7	4023.2	3774.2
22.5°	4195.9	4221.3	4350.2	4467.7	4512.4	4502.8	4458.9	4346.7	4231.9	4089.8	3804.0
25°	4368.6	4387.9	4522.1	4640.4	4667.6	4645.7	4590.4	4446.7	4321.3	4180.1	3858.4
27.5°	4591.3	4593.9	4732.5	4832.4	4815.8	4800.8	4731.6	4572.0	4450.2	4309.0	3952.2
30°	4835.9	4835.9	4957.8	5034.1	4983.2	4970.9	4901.7	4723.7	4615.0	4484.4	4085.5
32.5°	5072.6	5083.1	5182.2	5230.4	5173.4	5161.2	5093.7	4915.7	4834.2	4751.8	4293.2
35°	5301.4	5309.3	5403.1	5429.4	5375.1	5378.6	5330.4	5179.6	5148.9	5138.4	4606.2
37.5°	5523.3	5525.0	5620.6	5637.2	5610.0	5639.9	5644.2	5511.0	5568.0	5653.0	5047.2
40°	5725.8	5727.5	5822.2	5865.2	5911.6	5950.2	5984.4	5913.4	6101.9	6299.1	5572.4
42.5°	5888.0	5906.4	6026.5	6108.0	6230.8	6304.4	6397.3	6393.8	6737.5	7033.8	6207.1
45°	6030.9	6062.4	6229.9	6372.8	6583.2	6700.7	6846.2	6960.2	7452.9	7851.8	6849.7
47.5°	6219.4	6249.2	6440.3	6674.4	6954.9	7109.2	7350.3	7596.7	8239.3	8654.9	7477.4
50°	6485.0	6471.9	6660.3	6996.1	7356.4	7559.0	7902.6	8271.7	9019.6	9354.5	7846.5
52.5°	6768.2	6762.9	6902.3	7345.9	7829.9	8066.6	8520.7	8969.6	9765.6	9836.7	8015.7
55°	7118.9	7081.2	7198.6	7744.8	8391.8	8646.1	9180.9	9660.4	10360.0	10108.4	8100.8
57.5°	7486.2	7424.0	7536.2	8189.3	9025.7	9326.4	9912.1	10333.7	10755.4	10294.3	8099.9
60°	7865.8	7792.2	7925.4	8745.2	9813.0	10161.0	10704.6	10788.8	11124.5	10388.1	8040.3
62.5°	8183.2	8139.3	8337.5	9339.6	10692.3	11034.2	11303.4	11202.6	11435.8	10460.9	7900.9
65°	8519.0	8521.6	8841.6	10033.0	11626.9	11857.5	11880.3	11739.1	11696.2	10446.0	7429.2
67.5°	8973.1	9015.2	9549.1	10974.6	12536.0	12714.0	12712.3	12320.4	11886.4	9853.3	6383.3
70°	9453.5	9552.6	10364.4	12052.1	13528.5	13709.1	13616.1	12690.3	11192.0	7967.5	4517.7
72.5°	9372.9	9544.7	10817.7	12731.5	14241.2	14378.9	13774.8	11781.2	8846.0	4630.8	1923.5
75°	7231.1	7430.1	9919.1	12058.2	13493.4	13369.8	11835.5	9167.7	4834.2	1292.3	433.1
77.5°	3819.8	3925.9	6552.5	9186.1	10521.4	10262.7	8337.5	5085.8	1473.7	320.0	194.6
80°	2000.6	2025.2	2855.4	5212.0	6493.8	6495.5	4941.1	2233.8	607.6	163.9	130.6
82.5°	1071.3	1092.4	1508.8	2408.3	3402.5	3084.3	1891.9	1229.1	353.3	92.9	125.4
85°	257.8	262.1	855.7	1100.3	1337.9	955.6	562.0	1031.9	95.6	54.4	101.7
87.5°	99.1	100.8	317.4	476.1	341.0	220.9	263.0	384.9	12.3	21.0	15.8
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°	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1	3882.1
2.5°	3843.5	3820.7	3764.6	3693.6	3630.4	3584.9	3516.5	3471.8	3442.0	3441.1	3429.7
5°	3746.2	3699.7	3578.7	3434.9	3304.3	3186.8	3048.3	2938.7	2857.2	2844.0	2816.0
7.5°	3641.8	3565.6	3379.7	3155.3	2936.1	2713.4	2454.8	2294.3	2156.7	2090.9	2083.9
10°	3577.8	3470.9	3207.0	2882.6	2538.9	2176.9	1838.5	1604.4	1435.2	1387.0	1351.0
12.5°	3564.7	3423.5	3073.7	2626.6	2135.7	1657.0	1282.6	1033.6	898.6	855.7	844.3
15°	3577.8	3401.6	2961.5	2373.2	1727.1	1175.7	860.9	716.3	665.4	653.1	652.3
17.5°	3585.7	3375.3	2834.4	2091.8	1330.8	839.9	659.3	617.2	609.3	608.4	610.2
20°	3584.9	3335.0	2682.7	1778.0	989.8	660.2	596.2	587.4	585.6	586.5	585.6
22.5°	3578.7	3287.7	2516.1	1454.5	747.8	590.0	569.0	563.7	562.8	562.8	562.8
25°	3590.1	3250.0	2332.9	1145.0	616.3	557.6	544.4	540.1	539.2	539.2	537.4
27.5°	3631.3	3228.9	2132.2	881.1	556.7	528.7	518.1	517.3	514.6	513.8	515.5
30°	3698.0	3228.9	1912.1	685.6	520.8	498.8	491.0	489.2	488.3	487.4	488.3
32.5°	3815.4	3253.5	1671.9	569.9	486.6	465.5	460.3	462.9	460.3	460.3	460.3
35°	4027.6	3327.1	1420.3	497.1	450.6	433.1	427.8	431.3	429.6	429.6	428.7
37.5°	4337.1	3463.9	1166.9	453.3	419.1	400.7	393.6	398.9	397.1	397.1	396.3
40°	4714.1	3662.9	925.8	419.9	388.4	369.1	363.0	365.6	361.2	361.2	363.0
42.5°	5179.6	3915.4	715.4	387.5	357.7	339.3	335.8	333.1	325.3	320.9	321.8
45°	5696.8	4178.4	557.6	355.9	328.8	313.9	308.6	301.6	288.4	279.7	280.5
47.5°	6158.9	4380.9	453.3	325.3	302.5	291.1	283.2	270.0	250.7	240.2	241.1
50°	6401.7	4411.6	385.8	294.6	277.9	266.5	255.1	235.0	212.2	200.8	199.9
52.5°	6464.0	4267.8	335.8	266.5	253.4	240.2	225.3	198.1	172.7	160.4	158.7
55°	6486.8	4048.6	291.1	240.2	227.1	212.2	192.9	162.2	138.5	126.2	125.4
57.5°	6411.4	3721.6	256.0	216.5	200.8	182.4	158.7	129.8	107.0	97.3	97.3
60°	6243.9	3278.9	228.8	191.1	173.6	152.5	128.0	100.8	79.8	71.9	71.9
62.5°	5909.9	2705.5	203.4	164.8	148.2	126.2	103.5	76.3	56.1	51.7	52.6
65°	5279.5	2052.4	178.0	141.1	126.2	104.3	80.7	54.4	37.7	37.7	39.5
67.5°	4305.5	1425.5	151.7	120.1	108.7	85.0	61.4	37.7	26.3	29.8	33.3
70°	2850.2	799.6	129.8	99.1	92.9	67.5	45.6	25.4	21.0	28.1	34.2
72.5°	1075.7	311.2	108.7	79.8	80.7	51.7	32.4	19.3	19.3	30.7	40.3
75°	299.8	152.5	78.0	58.7	63.1	37.7	23.7	16.7	18.4	35.1	47.3
77.5°	176.2	112.2	50.8	34.2	43.0	26.3	15.8	13.2	15.8	29.8	45.6
80°	142.0	59.6	29.8	17.5	23.7	14.9	10.5	7.9	4.4	11.4	23.7
82.5°	142.0	35.9	14.0	12.3	12.3	7.9	5.3	3.5	0.9	0.0	6.1
85°	95.6	14.9	8.8	7.9	6.1	2.6	1.8	0.9	0.0	0.0	0.0
87.5°	15.8	6.1	3.5	1.8	0.9	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)