

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: P323838

Luminaire Tested: **GAN-SA4B-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323838
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-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 18709 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

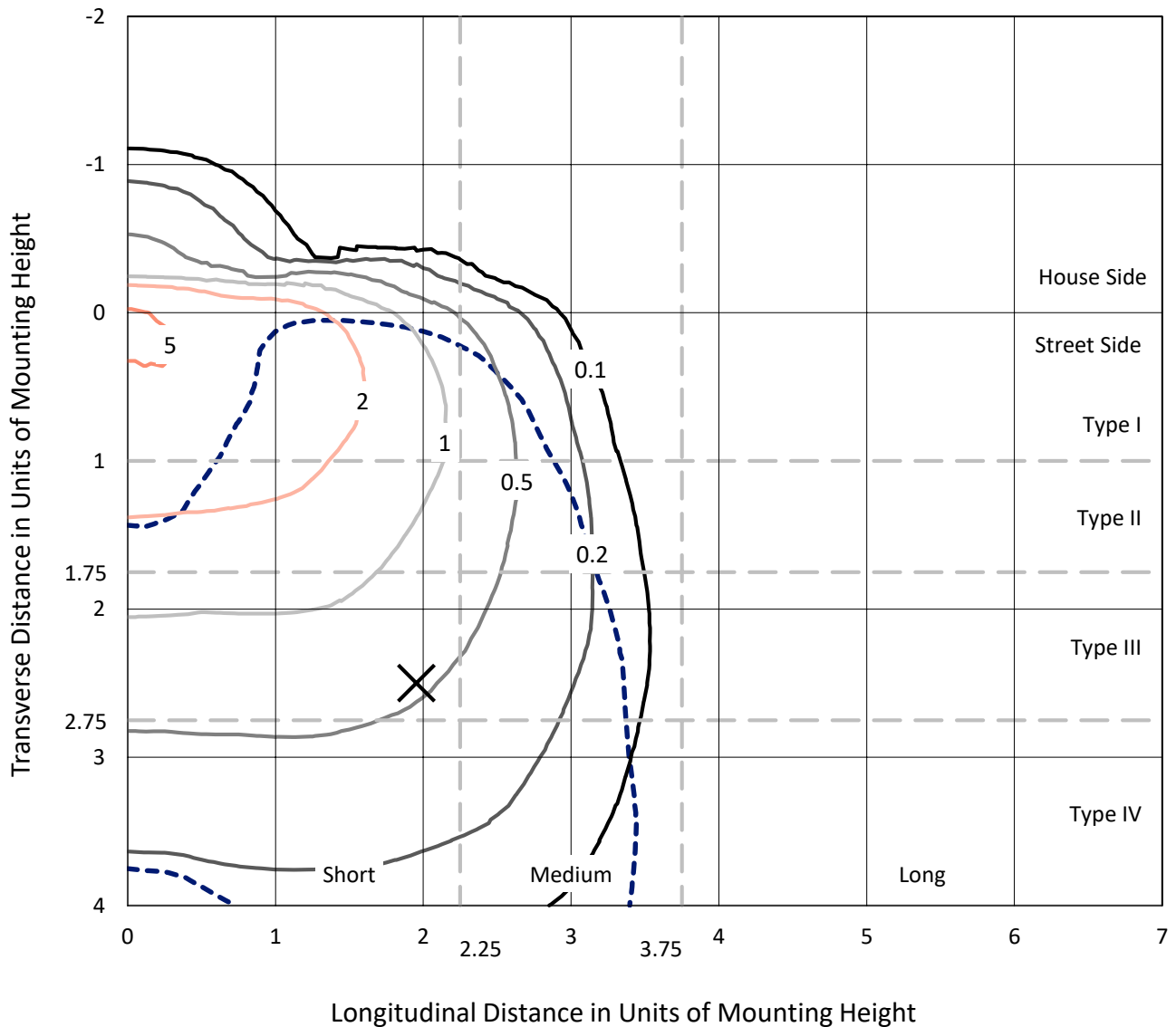
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

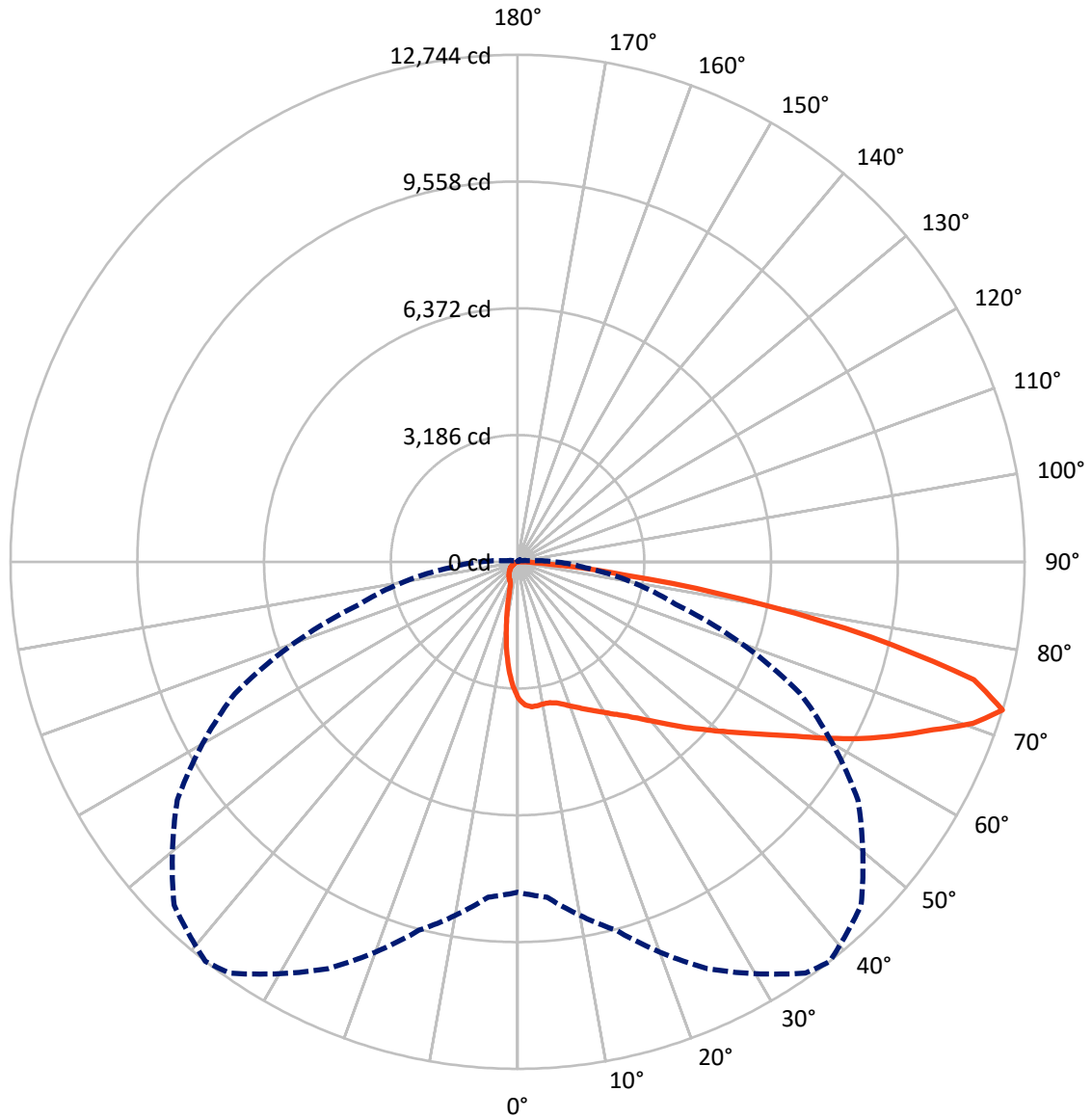
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	1574.4	0.0	1574.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17134.6	0.0	17134.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	18709.0	0.0	18709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	1.6
10°-20°	716.9	3.8
20°-30°	1140.3	6.1
30°-40°	1714.3	9.2
40°-50°	2615.3	14.0
50°-60°	3696.2	19.8
60°-70°	4636.3	24.8
70°-80°	3466.7	18.5
80°-90°	429.9	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°	18709.0	100.0
0°-180°	18709.0	100.0

Coefficient of Utilization



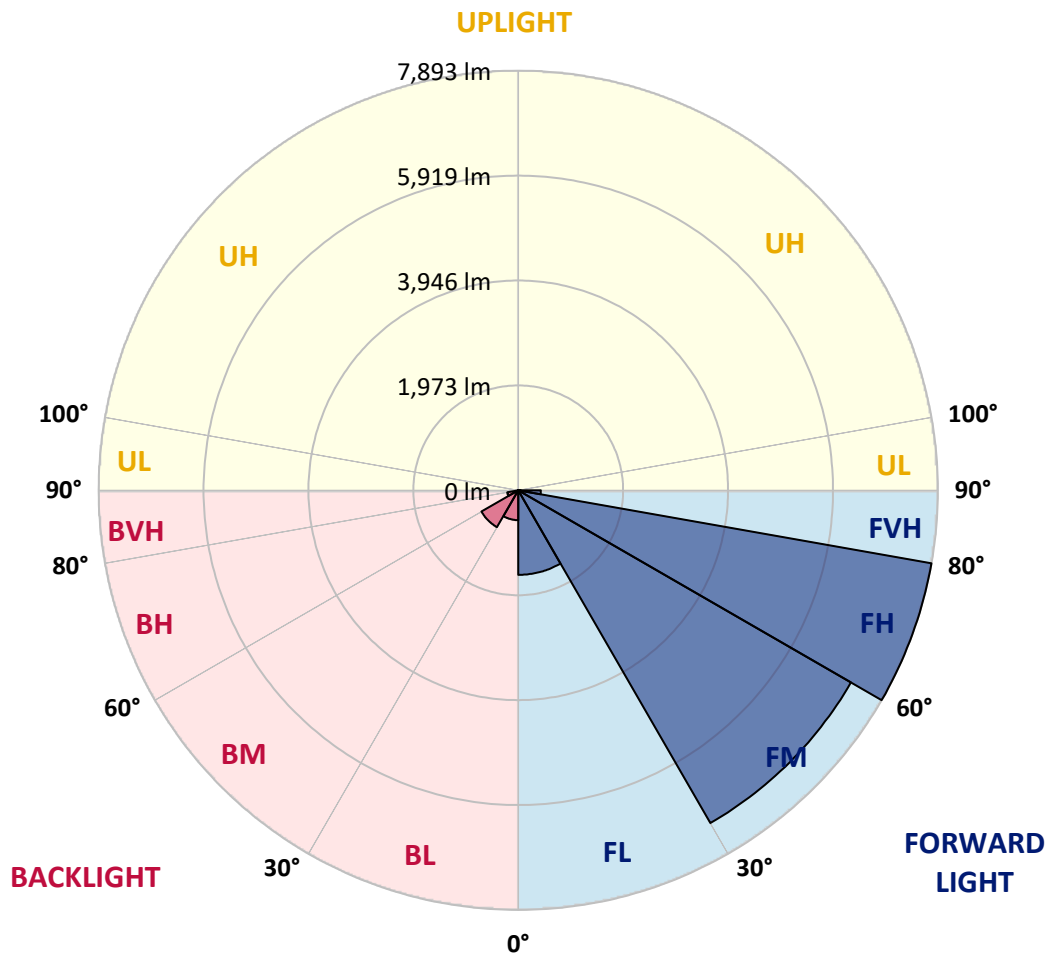
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1589.8	8.5			
FM (30°-60°)	7226.2	38.6			
FH (60°-80°)	7892.7	42.2			G4/12000
FVH (80°-90°)	425.8	2.3			G3/500
BL (0°-30°)	560.6	3.0	B2/1000		
BM (30°-60°)	799.5	4.3	B1/1000		
BH (60°-80°)	210.3	1.1	B1/500		G1/500
BVH (80°-90°)	4.0	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°	3440.5	3440.5	3440.5	3440.5	3440.5	3440.5	3440.5	3440.5	3440.5	3440.5	3440.5
2.5°	3651.9	3652.6	3644.1	3630.1	3612.2	3602.9	3587.4	3562.5	3536.1	3488.7	3437.4
5°	3726.5	3726.5	3715.6	3696.9	3668.2	3659.6	3630.1	3590.5	3536.1	3459.2	3372.9
7.5°	3718.7	3720.2	3705.5	3686.1	3657.3	3649.5	3613.8	3569.5	3501.9	3408.7	3298.3
10°	3678.3	3682.2	3670.5	3661.2	3634.8	3626.2	3592.8	3548.5	3480.9	3381.5	3254.8
12.5°	3637.1	3641.0	3644.9	3653.4	3637.1	3634.0	3607.6	3570.3	3505.8	3402.5	3259.5
15°	3610.7	3618.5	3646.4	3679.8	3683.7	3680.6	3663.5	3628.6	3563.3	3456.1	3292.9
17.5°	3610.7	3623.1	3681.4	3745.1	3767.6	3770.0	3755.2	3706.3	3628.6	3513.6	3324.0
20°	3641.0	3658.1	3749.0	3839.1	3876.4	3876.4	3847.7	3779.3	3688.4	3565.6	3345.0
22.5°	3718.7	3741.2	3855.4	3959.6	3999.2	3990.6	3951.8	3852.3	3750.5	3624.7	3371.4
25°	3871.8	3888.8	4007.7	4112.6	4136.7	4117.3	4068.3	3940.9	3829.8	3704.7	3419.5
27.5°	4069.1	4071.4	4194.2	4282.8	4268.0	4254.8	4193.4	4052.0	3944.0	3818.9	3502.7
30°	4285.9	4285.9	4393.9	4461.5	4416.4	4405.5	4344.2	4186.4	4090.1	3974.3	3620.8
32.5°	4495.7	4505.0	4592.8	4635.5	4585.0	4574.2	4514.3	4356.6	4284.3	4211.3	3804.9
35°	4698.5	4705.5	4788.6	4811.9	4763.7	4766.8	4724.1	4590.5	4563.3	4554.0	4082.3
37.5°	4895.1	4896.6	4981.3	4996.1	4972.0	4998.4	5002.3	4884.2	4934.7	5010.0	4473.1
40°	5074.5	5076.1	5160.0	5198.1	5239.3	5273.4	5303.8	5240.8	5407.9	5582.7	4938.6
42.5°	5218.3	5234.6	5341.0	5413.3	5522.1	5587.4	5669.7	5666.6	5971.2	6233.8	5501.1
45°	5344.9	5372.9	5521.3	5648.0	5834.4	5938.6	6067.5	6168.5	6605.2	6958.7	6070.6
47.5°	5512.0	5538.4	5707.8	5915.2	6163.9	6300.6	6514.3	6732.6	7302.2	7670.5	6627.0
50°	5747.4	5735.8	5902.8	6200.4	6519.7	6699.2	7003.8	7330.9	7993.7	8290.5	6954.1
52.5°	5998.4	5993.7	6117.3	6510.4	6939.3	7149.1	7551.6	7949.4	8654.9	8717.9	7104.0
55°	6309.2	6275.8	6379.9	6864.0	7437.4	7662.7	8136.7	8561.7	9181.7	8958.7	7179.4
57.5°	6634.7	6579.6	6679.0	7257.9	7999.1	8265.6	8784.7	9158.4	9532.1	9123.4	7178.6
60°	6971.2	6905.9	7024.0	7750.5	8696.9	9005.3	9487.1	9561.7	9859.3	9206.6	7125.8
62.5°	7252.4	7213.6	7389.2	8277.3	9476.2	9779.2	10017.8	9928.4	10135.1	9271.1	7002.3
65°	7550.0	7552.4	7836.0	8891.9	10304.5	10508.8	10529.0	10403.9	10365.9	9257.9	6584.2
67.5°	7952.5	7989.8	8463.0	9726.4	11110.2	11267.9	11266.4	10919.1	10534.5	8732.6	5657.3
70°	8378.3	8466.1	9185.6	10681.3	11989.8	12149.8	12067.5	11247.0	9919.1	7061.3	4003.8
72.5°	8306.8	8459.1	9587.3	11283.5	12621.5	12743.5	12208.1	10441.2	7839.9	4104.1	1704.7
75°	6408.6	6585.0	8790.9	10686.8	11958.7	11849.1	10489.4	8125.0	4284.3	1145.3	383.8
77.5°	3385.4	3479.4	5807.2	8141.3	9324.7	9095.5	7389.2	4507.3	1306.1	283.6	172.5
80°	1773.1	1794.9	2530.7	4619.2	5755.2	5756.7	4379.1	1979.8	538.5	145.3	115.8
82.5°	949.5	968.1	1337.2	2134.4	3015.5	2733.5	1676.8	1089.3	313.1	82.4	111.1
85°	228.4	232.3	758.3	975.1	1185.7	846.9	498.1	914.5	84.7	48.2	90.1
87.5°	87.8	89.4	281.3	421.9	302.3	195.8	233.1	341.1	10.9	18.6	14.0
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°	3440.5	3440.5	3440.5	3440.5	3440.5	3440.5	3440.5	3440.5	3440.5	3440.5	3440.5
2.5°	3406.3	3386.1	3336.4	3273.5	3217.5	3177.1	3116.5	3076.9	3050.5	3049.7	3039.6
5°	3320.1	3278.9	3171.7	3044.3	2928.5	2824.4	2701.6	2604.5	2532.2	2520.6	2495.7
7.5°	3227.6	3160.0	2995.3	2796.4	2602.1	2404.8	2175.6	2033.4	1911.4	1853.1	1846.9
10°	3170.9	3076.1	2842.2	2554.8	2250.2	1929.3	1629.4	1421.9	1271.9	1229.2	1197.3
12.5°	3159.3	3034.2	2724.1	2327.9	1892.8	1468.5	1136.7	916.1	796.4	758.3	748.2
15°	3170.9	3014.7	2624.7	2103.3	1530.7	1041.9	763.0	634.8	589.7	578.9	578.1
17.5°	3177.9	2991.4	2512.0	1853.9	1179.5	744.4	584.3	547.0	540.0	539.2	540.8
20°	3177.1	2955.7	2377.6	1575.7	877.2	585.1	528.4	520.6	519.0	519.8	519.0
22.5°	3171.7	2913.7	2230.0	1289.0	662.8	522.9	504.3	499.6	498.8	498.8	498.8
25°	3181.8	2880.3	2067.6	1014.8	546.2	494.2	482.5	478.6	477.9	477.9	476.3
27.5°	3218.3	2861.7	1889.6	780.9	493.4	468.5	459.2	458.4	456.1	455.3	456.9
30°	3277.4	2861.7	1694.6	607.6	461.5	442.1	435.1	433.6	432.8	432.0	432.8
32.5°	3381.5	2883.4	1481.7	505.0	431.2	412.6	407.9	410.3	407.9	407.9	407.9
35°	3569.5	2948.7	1258.7	440.6	399.4	383.8	379.2	382.3	380.7	380.7	379.9
37.5°	3843.8	3069.9	1034.2	401.7	371.4	355.1	348.9	353.5	352.0	352.0	351.2
40°	4177.9	3246.3	820.5	372.2	344.2	327.1	321.7	324.0	320.1	320.1	321.7
42.5°	4590.5	3470.0	634.0	343.4	317.0	300.7	297.6	295.3	288.3	284.4	285.2
45°	5048.9	3703.1	494.2	315.5	291.4	278.2	273.5	267.3	255.6	247.9	248.6
47.5°	5458.4	3882.6	401.7	288.3	268.1	258.0	251.0	239.3	222.2	212.9	213.7
50°	5673.6	3909.8	341.9	261.1	246.3	236.2	226.1	208.2	188.0	177.9	177.2
52.5°	5728.8	3782.4	297.6	236.2	224.6	212.9	199.7	175.6	153.1	142.2	140.6
55°	5749.0	3588.2	258.0	212.9	201.2	188.0	170.9	143.7	122.8	111.9	111.1
57.5°	5682.1	3298.3	226.9	191.9	177.9	161.6	140.6	115.0	94.8	86.2	86.2
60°	5533.7	2906.0	202.8	169.4	153.8	135.2	113.4	89.4	70.7	63.7	63.7
62.5°	5237.7	2397.8	180.3	146.1	131.3	111.9	91.7	67.6	49.7	45.8	46.6
65°	4679.0	1818.9	157.7	125.1	111.9	92.5	71.5	48.2	33.4	33.4	35.0
67.5°	3815.8	1263.4	134.4	106.4	96.3	75.4	54.4	33.4	23.3	26.4	29.5
70°	2526.0	708.6	115.0	87.8	82.4	59.8	40.4	22.5	18.6	24.9	30.3
72.5°	953.4	275.8	96.3	70.7	71.5	45.8	28.7	17.1	17.1	27.2	35.7
75°	265.7	135.2	69.2	52.1	55.9	33.4	21.0	14.8	16.3	31.1	42.0
77.5°	156.2	99.5	45.1	30.3	38.1	23.3	14.0	11.7	14.0	26.4	40.4
80°	125.9	52.8	26.4	15.5	21.0	13.2	9.3	7.0	3.9	10.1	21.0
82.5°	125.9	31.9	12.4	10.9	10.9	7.0	4.7	3.1	0.8	0.0	5.4
85°	84.7	13.2	7.8	7.0	5.4	2.3	1.6	0.8	0.0	0.0	0.0
87.5°	14.0	5.4	3.1	1.6	0.8	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)