

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: P319628

Luminaire Tested: **GAN-SA4A-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17121 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

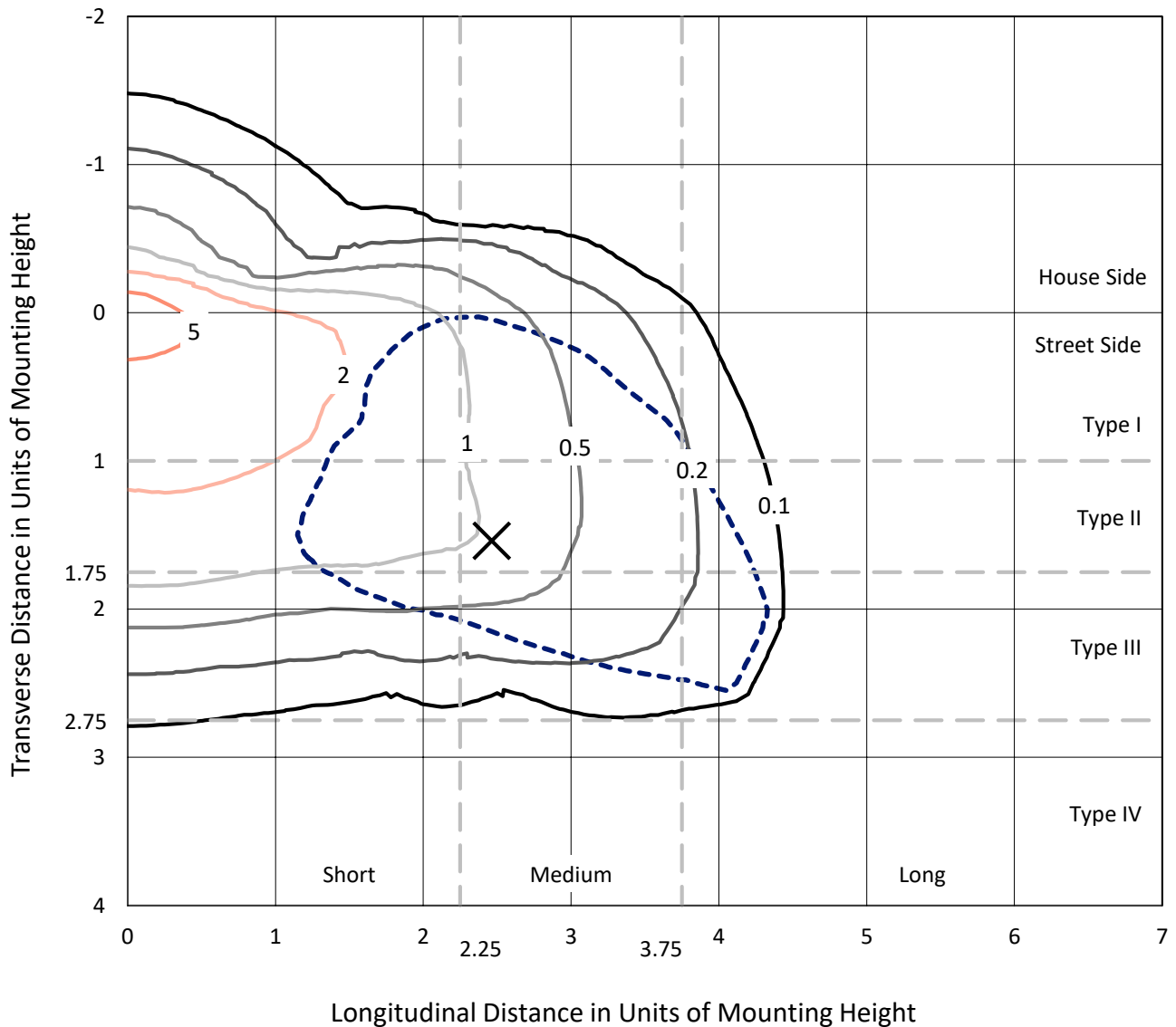
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

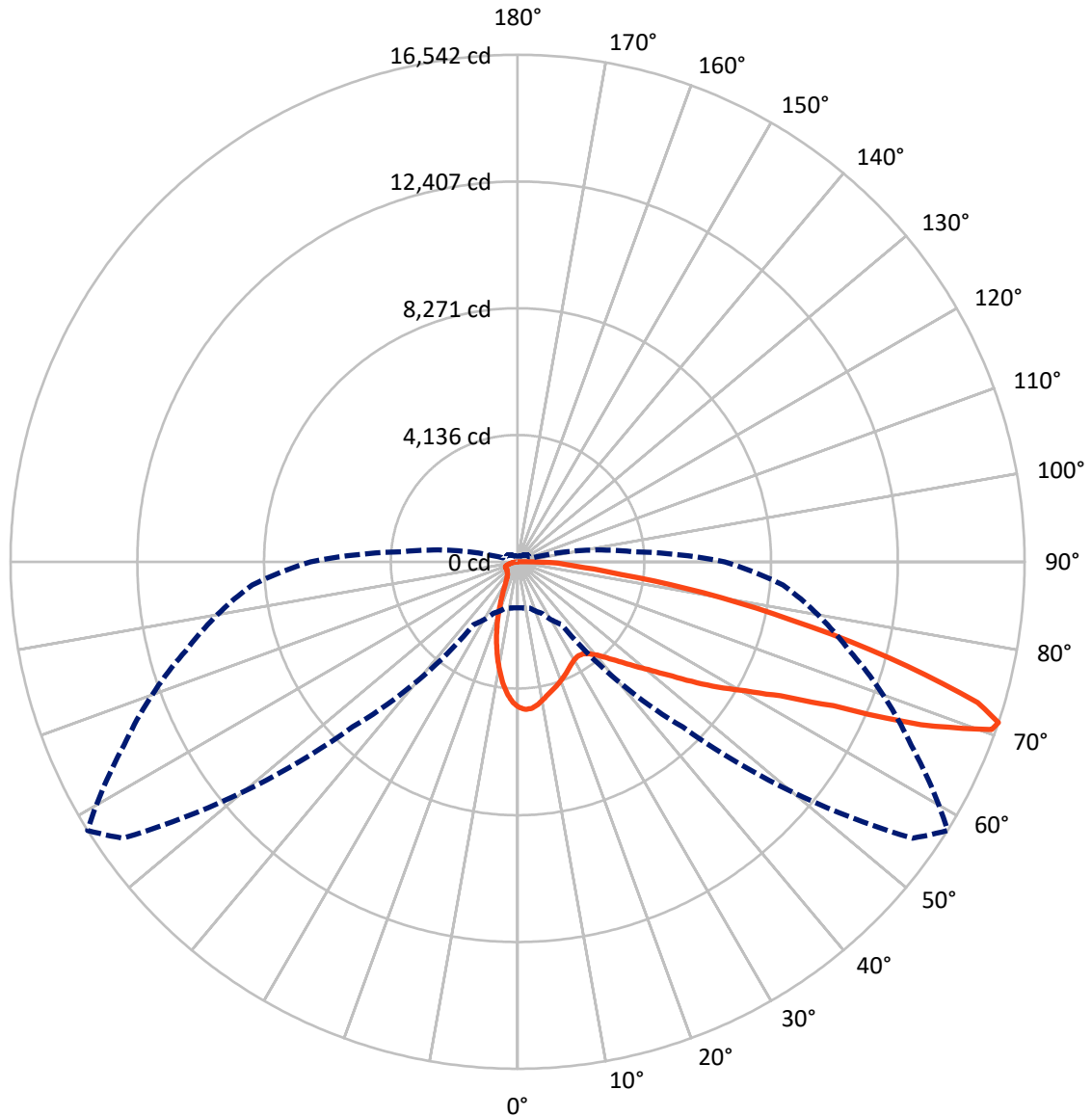
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2559.7	0.0	2559.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	14561.3	0.0	14561.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	17121.0	0.0	17121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.2	2.4
10°-20°	910.0	5.3
20°-30°	1156.5	6.8
30°-40°	1473.1	8.6
40°-50°	2089.0	12.2
50°-60°	3232.8	18.9
60°-70°	4401.0	25.7
70°-80°	2936.0	17.1
80°-90°	513.3	3.0
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°	17121.0	100.0
0°-180°	17121.0	100.0

Coefficient of Utilization



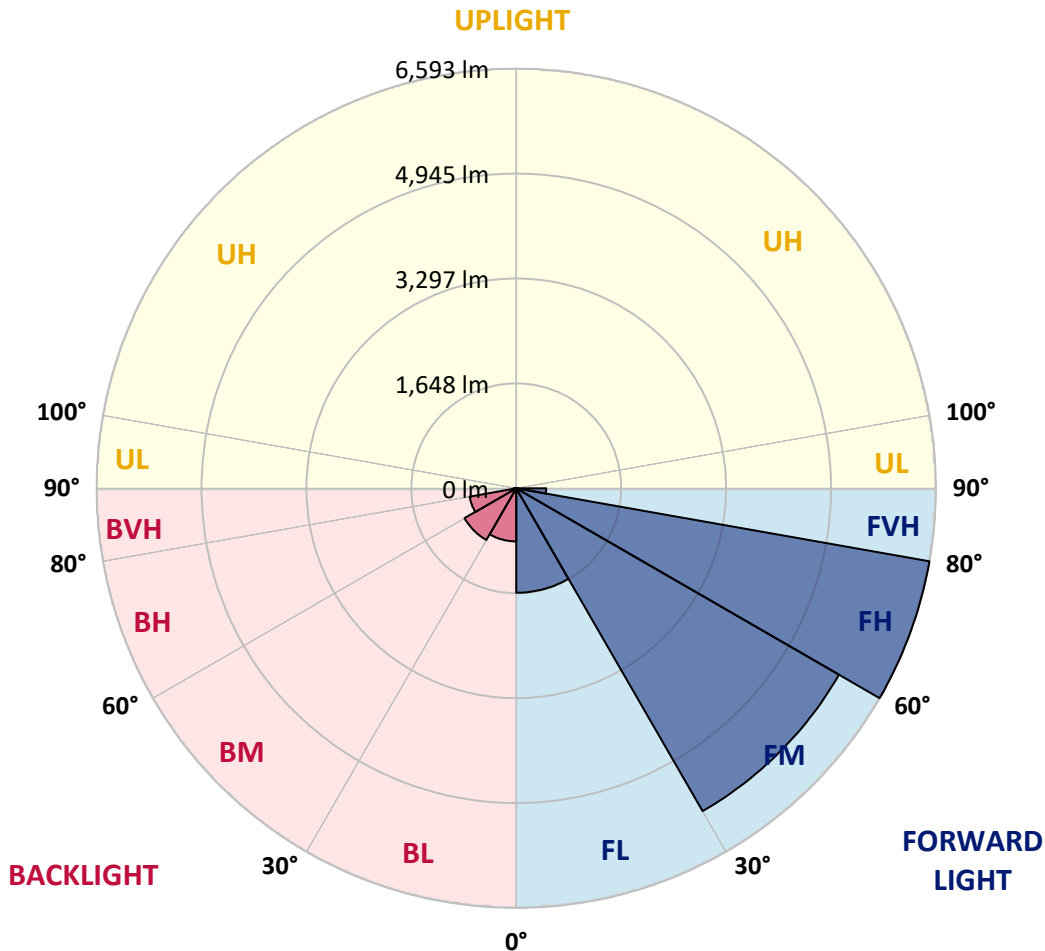
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1641.3	9.6			
FM (30°-60°)	5856.2	34.2			
FH (60°-80°)	6593.1	38.5			G3/7500
FVH (80°-90°)	470.7	2.7			G3/500
BL (0°-30°)	834.4	4.9	B2/1000		
BM (30°-60°)	938.7	5.5	B1/1000		
BH (60°-80°)	744.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	42.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4743.7	4743.7	4743.7	4743.7	4743.7	4743.7	4743.7	4743.7	4743.7	4743.7	4743.7
2.5°	4869.5	4862.9	4865.3	4860.6	4849.2	4837.9	4821.2	4824.2	4800.9	4766.3	4723.4
5°	4777.7	4775.3	4793.2	4803.3	4811.6	4805.1	4800.3	4806.3	4772.3	4724.6	4650.0
7.5°	4585.0	4558.8	4581.4	4615.4	4647.6	4672.1	4704.3	4708.5	4687.0	4636.9	4539.1
10°	4311.3	4286.2	4319.6	4372.7	4437.1	4495.6	4560.6	4572.5	4576.7	4531.3	4412.7
12.5°	4027.4	4008.3	4041.7	4116.3	4223.0	4313.1	4416.8	4434.7	4471.7	4441.3	4295.8
15°	3773.3	3766.2	3806.7	3880.1	4002.9	4140.7	4290.4	4323.2	4385.8	4375.7	4204.5
17.5°	3553.9	3552.1	3583.1	3660.0	3796.0	3970.1	4164.6	4220.0	4313.1	4325.0	4129.4
20°	3390.5	3386.9	3408.4	3465.0	3605.2	3802.6	4028.6	4104.9	4239.1	4280.9	4051.9
22.5°	3302.8	3302.2	3302.8	3329.6	3444.1	3627.8	3896.2	3989.2	4167.0	4245.7	3966.0
25°	3287.9	3286.1	3273.0	3270.0	3335.0	3481.7	3765.0	3867.6	4098.4	4221.2	3884.3
27.5°	3326.6	3329.0	3311.7	3283.7	3296.8	3385.7	3651.1	3760.8	4043.5	4216.5	3827.6
30°	3407.2	3406.0	3391.1	3361.8	3336.2	3349.9	3570.0	3679.7	4006.5	4237.3	3788.8
32.5°	3496.0	3502.6	3499.6	3483.5	3445.3	3390.5	3545.5	3652.9	3995.8	4287.4	3772.1
35°	3602.8	3609.9	3631.4	3643.9	3599.2	3510.9	3598.0	3691.0	4026.8	4381.7	3799.0
37.5°	3704.2	3722.6	3782.9	3836.0	3797.8	3699.4	3737.6	3803.8	4122.8	4530.2	3871.1
40°	3821.1	3837.2	3935.6	4048.3	4042.3	3940.3	3962.4	4006.5	4292.2	4743.1	4001.8
42.5°	3936.2	3968.4	4110.9	4270.7	4316.6	4226.6	4261.8	4285.0	4530.8	5025.2	4229.6
45°	4089.4	4124.0	4322.0	4514.6	4622.0	4571.3	4627.4	4636.3	4830.7	5409.2	4560.6
47.5°	4321.4	4360.8	4591.6	4793.8	4957.8	4963.1	5055.6	5052.0	5205.3	5848.8	4977.4
50°	4682.8	4739.5	4928.5	5117.6	5316.8	5427.7	5551.2	5533.9	5654.3	6316.9	5457.5
52.5°	5156.4	5182.6	5322.8	5462.3	5709.8	5958.5	6135.6	6120.1	6163.7	6798.2	6002.6
55°	5647.2	5666.9	5724.7	5801.1	6133.8	6539.4	6913.9	6889.5	6779.1	7298.0	6541.2
57.5°	6088.5	6128.5	6168.4	6200.0	6560.9	7146.5	7710.1	7711.9	7447.1	7837.1	7097.6
60°	6157.1	6192.3	6456.5	6705.8	7291.4	7956.4	8562.3	8544.4	8138.3	8422.2	7717.8
62.5°	5442.6	5521.9	5963.3	6626.5	7995.2	9437.8	9649.5	9627.5	8964.9	9143.2	8440.1
65°	3900.4	3990.4	4523.0	5519.6	7654.0	11070.1	11611.7	11314.7	10092.1	10030.0	9285.7
67.5°	2250.2	2271.6	2502.4	3302.8	5827.9	11155.4	14604.9	14189.2	11842.5	11036.1	9699.6
70°	1663.9	1663.3	1718.2	2032.5	3153.7	9104.4	16028.5	16401.2	13685.3	11367.1	9114.6
71°	1504.7	1506.5	1567.9	1850.0	2497.7	7620.6	15726.1	16542.0	14170.7	11203.7	8691.1
72.5°	1287.0	1293.0	1378.3	1659.1	2101.1	5255.4	14423.6	15697.5	14401.0	10800.6	8028.6
75°	976.3	990.0	1108.1	1398.5	1920.4	2665.3	10585.9	12534.9	12793.1	9530.3	5965.7
77.5°	696.6	712.1	845.7	1176.1	1825.5	2008.6	7089.3	9143.2	9414.6	6107.6	2690.9
80°	440.1	458.6	559.4	935.7	1715.2	1907.2	4455.0	6145.8	5133.7	1954.4	684.7
82.5°	258.2	272.5	347.1	611.3	1400.9	1836.9	2621.1	3406.6	1997.9	590.4	311.3
85°	149.7	156.3	216.5	389.4	1017.4	1733.7	1925.7	1904.3	867.1	288.7	147.3
87.5°	69.8	77.5	128.2	203.4	564.8	1256.6	1522.0	1315.0	539.1	135.4	69.2
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°	4743.7	4743.7	4743.7	4743.7	4743.7	4743.7	4743.7	4743.7	4743.7	4743.7	4743.7
2.5°	4702.5	4692.4	4650.0	4612.5	4573.1	4521.8	4465.1	4458.0	4423.4	4430.0	4418.0
5°	4609.5	4583.8	4481.8	4389.4	4280.3	4182.5	4076.3	4027.4	3957.0	3952.3	3934.4
7.5°	4476.5	4428.8	4270.7	4095.4	3920.1	3753.1	3587.9	3479.3	3368.4	3321.3	3317.1
10°	4326.8	4245.7	4013.1	3753.7	3500.8	3256.9	3020.7	2846.0	2688.5	2614.0	2611.0
12.5°	4184.8	4065.0	3745.9	3392.8	3046.9	2730.9	2407.0	2177.4	1980.0	1913.8	1885.8
15°	4064.4	3895.6	3485.9	3034.4	2614.6	2175.6	1807.1	1565.5	1383.0	1319.8	1307.9
17.5°	3947.5	3730.4	3219.3	2672.4	2164.9	1682.4	1313.2	1133.7	1036.5	1010.9	1010.3
20°	3831.2	3560.4	2940.8	2302.1	1730.1	1258.4	1009.7	929.2	896.4	893.4	888.6
22.5°	3699.4	3380.3	2648.0	1930.5	1350.2	989.4	858.2	826.0	821.8	832.6	832.6
25°	3575.9	3201.4	2351.0	1566.7	1050.2	825.4	766.4	759.8	771.1	790.2	792.0
27.5°	3460.8	3029.0	2061.1	1243.5	841.5	727.0	702.5	710.3	730.6	752.6	753.2
30°	3366.0	2866.2	1779.6	979.9	710.9	653.6	649.5	665.0	687.0	704.3	708.5
32.5°	3292.7	2727.3	1507.7	787.8	625.6	598.8	602.4	615.5	629.2	638.7	645.3
35°	3258.7	2608.0	1256.6	664.4	571.3	556.4	561.2	568.4	574.3	581.5	586.8
37.5°	3264.6	2515.6	1032.3	587.4	535.0	527.2	527.2	527.2	527.2	530.8	531.4
40°	3320.1	2462.5	849.9	538.5	510.5	502.2	495.6	489.6	484.9	487.2	486.1
42.5°	3462.0	2457.7	716.3	507.5	490.8	477.1	464.0	455.6	449.7	452.1	453.3
45°	3703.0	2517.3	626.2	485.5	472.3	451.5	434.8	425.8	421.6	429.4	430.6
47.5°	4014.9	2647.4	571.3	469.4	455.0	427.6	409.7	401.4	402.6	413.9	416.9
50°	4416.8	2858.5	545.1	459.2	443.1	407.3	388.8	381.7	385.3	401.4	404.9
52.5°	4858.2	3162.6	548.1	456.2	435.4	392.4	372.7	364.4	370.4	385.3	388.2
55°	5367.5	3528.2	597.6	460.4	424.0	382.9	359.6	345.3	350.1	363.8	366.2
57.5°	5933.5	3946.9	697.2	459.2	409.7	373.9	345.9	324.4	328.0	336.4	338.7
60°	6522.7	4452.6	851.6	462.8	403.2	363.2	327.4	300.6	299.4	306.5	307.7
62.5°	7230.0	5037.7	1028.2	465.2	407.3	349.5	303.0	276.7	273.1	274.9	276.1
65°	7958.8	5461.1	962.0	455.6	420.5	338.2	281.5	253.5	246.9	245.7	246.3
67.5°	7981.4	5007.3	674.5	436.6	425.8	332.2	265.4	233.8	223.0	218.9	218.3
70°	7157.8	4068.0	525.4	416.3	404.4	322.6	250.5	217.7	201.6	195.0	194.4
71°	6755.9	3744.7	498.0	406.1	388.2	313.1	243.9	210.5	193.8	186.7	185.5
72.5°	6125.5	3357.1	464.6	390.0	357.2	288.7	231.4	200.4	183.1	174.7	173.0
75°	4396.0	2195.3	399.0	347.7	295.8	230.2	202.8	180.1	165.2	155.1	153.9
77.5°	1693.7	873.7	301.8	289.2	226.6	180.1	167.0	155.7	144.9	134.8	134.2
80°	523.6	390.6	220.1	217.7	164.0	134.2	130.0	127.0	122.9	112.1	109.7
82.5°	279.7	224.2	151.5	140.7	107.3	89.5	94.2	95.4	96.0	84.7	83.5
85°	133.6	118.7	85.3	79.9	62.6	50.1	57.8	62.6	63.2	51.9	48.3
87.5°	63.8	62.0	40.0	30.4	23.3	16.7	20.3	25.0	27.4	19.7	17.3
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)