

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: P268521

Luminaire Tested: **GAN-AF-05-LED-U-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL4-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 24560.6 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

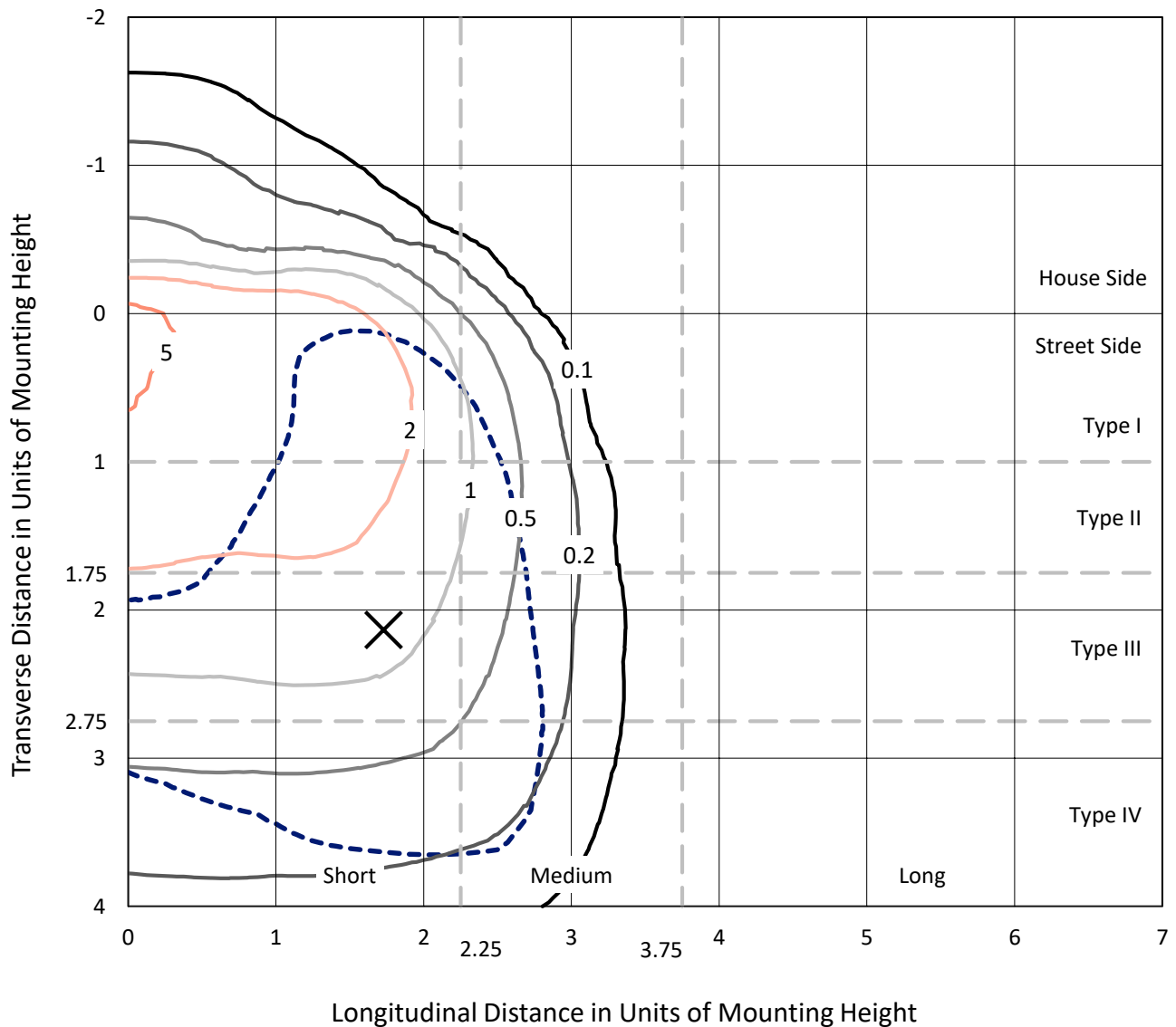
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

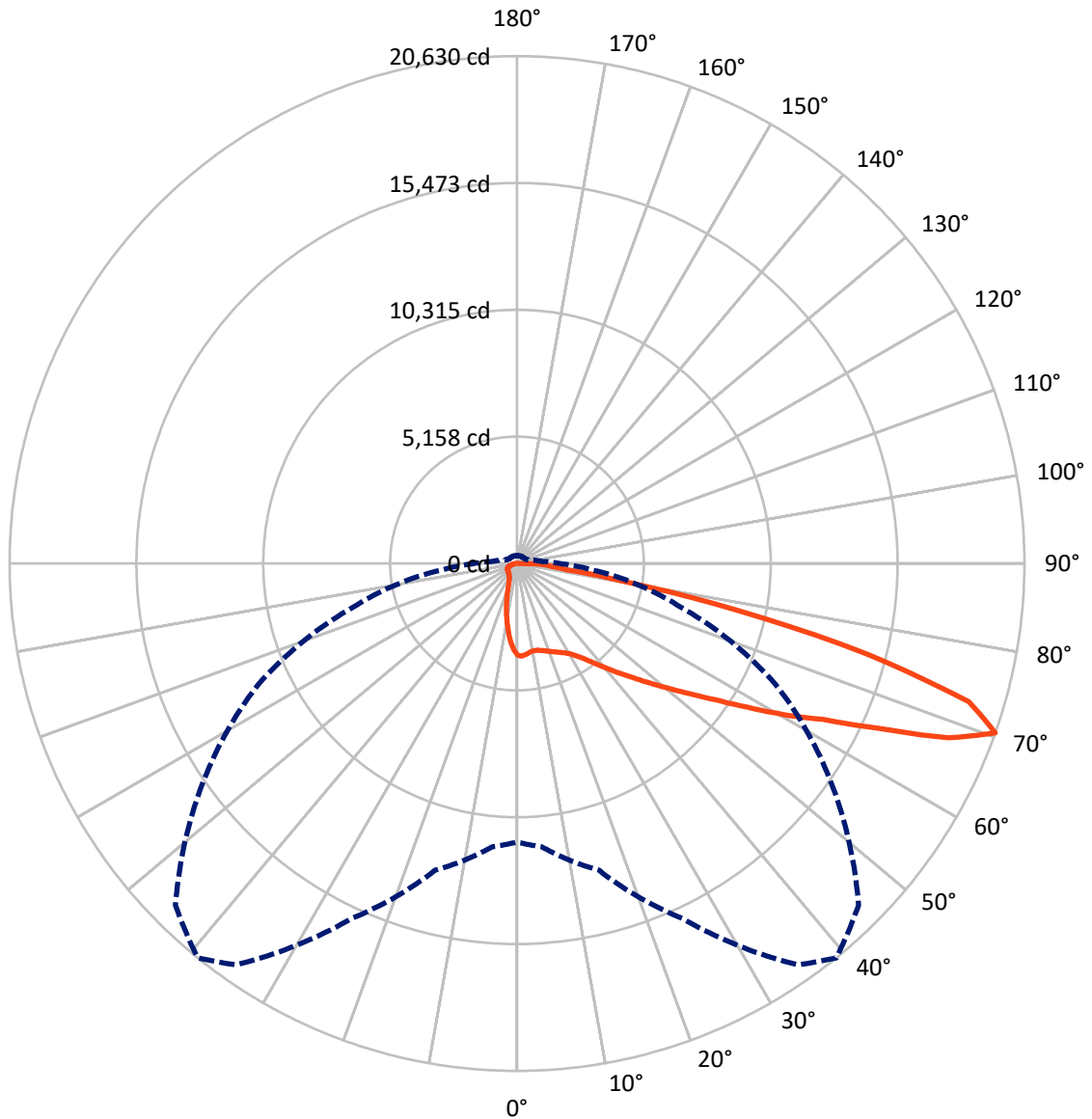
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2793.4	0.0	2793.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	21767.2	0.0	21767.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	24560.6	0.0	24560.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	1.3
10°-20°	799.9	3.3
20°-30°	1245.4	5.1
30°-40°	1940.1	7.9
40°-50°	3257.1	13.3
50°-60°	5174.2	21.1
60°-70°	6901.8	28.1
70°-80°	4167.8	17.0
80°-90°	754.3	3.1
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°	24560.6	100.0
0°-180°	24560.6	100.0



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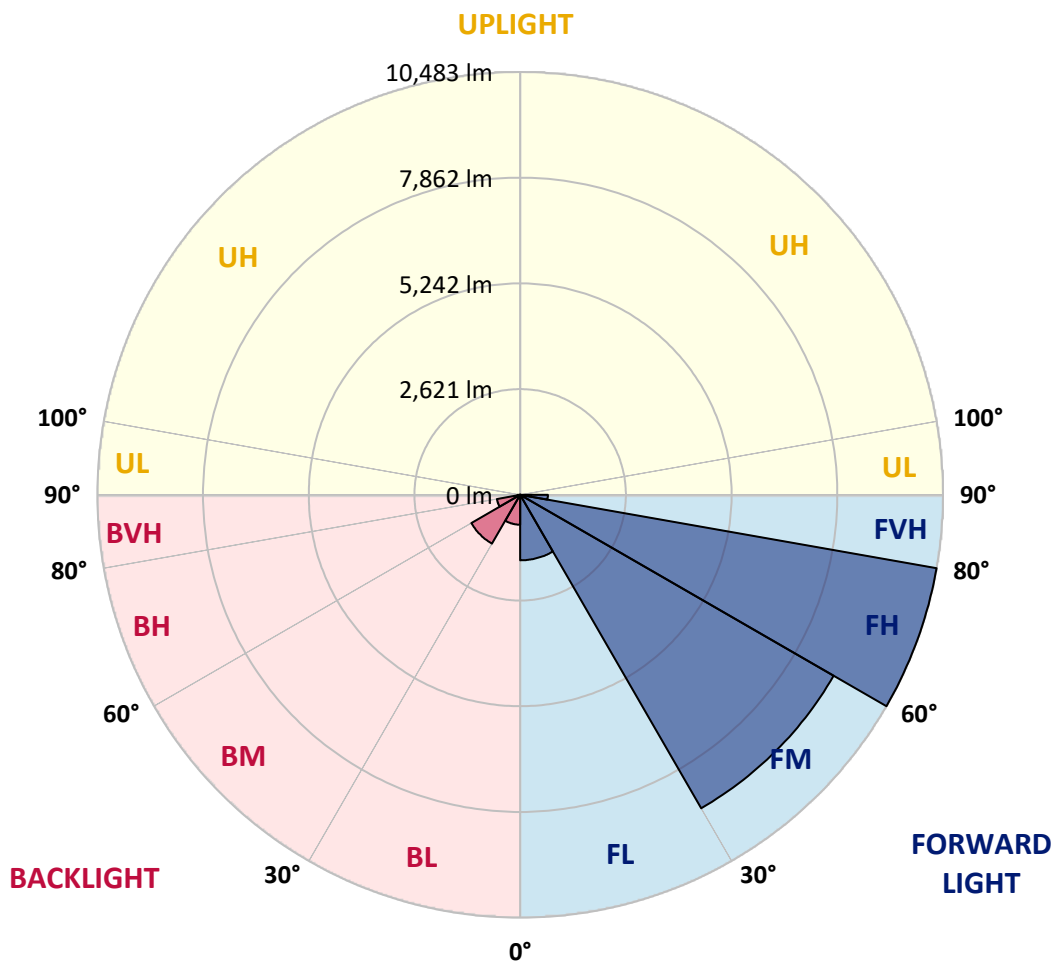
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1624.2	6.6			
FM	(30°-60°)	8973.5	36.5			
FH	(60°-80°)	10483.2	42.7			G4/12000
FVH	(80°-90°)	686.3	2.8			G4/750
BL	(0°-30°)	741.0	3.0	B2/1000		
BM	(30°-60°)	1397.9	5.7	B2/2500		
BH	(60°-80°)	586.4	2.4	B2/1000		G2/1000
BVH	(80°-90°)	68.0	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°	39°	45°	55°	65°	75°	85°
0°	3728.7	3728.7	3728.7	3728.7	3728.7	3728.7	3728.7	3728.7	3728.7	3728.7	3728.7
2.5°	3801.1	3799.9	3789.9	3782.4	3776.1	3773.6	3778.6	3759.9	3743.6	3723.7	3702.5
5°	3772.4	3771.2	3754.8	3740.0	3724.9	3719.9	3718.8	3684.9	3664.9	3635.0	3595.0
7.5°	3741.3	3735.0	3713.8	3688.7	3662.5	3650.1	3637.5	3593.8	3571.3	3541.4	3495.1
10°	3708.7	3701.1	3681.3	3656.2	3631.3	3612.5	3591.3	3548.8	3525.0	3502.6	3449.0
12.5°	3675.0	3668.8	3663.7	3652.5	3635.0	3618.8	3602.6	3566.4	3541.4	3515.2	3452.7
15°	3669.9	3667.5	3678.6	3686.3	3676.3	3666.3	3648.7	3617.6	3591.3	3565.2	3483.9
17.5°	3709.9	3708.7	3737.4	3757.4	3752.4	3735.0	3711.2	3676.3	3655.1	3632.6	3531.3
20°	3797.3	3803.7	3838.5	3864.8	3839.9	3814.8	3776.1	3727.4	3716.2	3706.1	3580.0
22.5°	3962.2	3968.4	3993.4	4003.3	3938.4	3902.2	3848.6	3786.1	3778.6	3786.1	3638.8
25°	4219.3	4213.2	4209.5	4172.0	4053.3	3997.2	3928.5	3863.5	3867.4	3901.0	3721.1
27.5°	4560.3	4526.6	4474.2	4361.8	4173.3	4110.7	4027.1	3967.2	3990.9	4055.8	3844.8
30°	4913.6	4876.3	4755.1	4571.6	4330.5	4261.9	4168.2	4100.9	4163.3	4265.6	4009.7
32.5°	5240.9	5236.0	5058.5	4822.6	4547.8	4487.9	4394.2	4318.1	4419.2	4575.2	4256.9
35°	5598.0	5609.2	5396.9	5113.5	4841.2	4778.9	4711.4	4653.9	4788.9	5003.6	4615.3
37.5°	5980.1	6002.7	5751.6	5432.0	5175.9	5149.8	5109.7	5084.8	5293.4	5590.5	5115.9
40°	6490.9	6468.3	6120.0	5791.6	5586.7	5585.5	5573.1	5603.0	5950.2	6357.2	5759.2
42.5°	7037.9	6971.6	6510.8	6177.5	6037.6	6080.0	6105.1	6227.4	6740.6	7288.8	6543.3
45°	7627.1	7478.6	6916.7	6585.7	6538.4	6628.2	6713.2	6979.1	7670.8	8348.9	7402.5
47.5°	8098.0	7954.3	7336.3	7014.1	7117.7	7253.9	7417.3	7838.3	8712.3	9444.2	8250.4
50°	8468.9	8375.2	7759.6	7513.6	7755.7	7965.6	8232.7	8810.9	9796.1	10510.4	9035.7
52.5°	8828.5	8758.6	8186.7	8025.5	8505.1	8794.8	9158.1	9854.9	10907.6	11559.4	9696.3
55°	9153.1	9103.2	8646.1	8663.7	9386.6	9763.8	10220.7	11043.8	12118.9	12494.6	10255.7
57.5°	9519.0	9455.3	9170.5	9464.1	10519.2	11008.6	11603.0	12379.8	13255.2	13326.4	10681.6
60°	9887.4	9832.4	9752.4	10388.1	11957.8	12472.2	13035.3	13674.7	14407.7	13972.0	10656.6
62.5°	10207.0	10213.3	10354.5	11358.3	13366.3	13961.9	14648.8	15280.6	15450.4	14084.3	9868.6
65°	10748.9	10847.7	11268.5	12731.9	15349.2	16146.0	16988.8	16887.6	15738.8	13034.1	8179.1
67.5°	11393.4	11566.8	12419.7	14562.6	17855.4	18913.2	19239.0	17251.1	14583.9	10595.4	5830.3
70°	11328.3	11566.8	12916.8	15927.4	19920.9	20630.1	19641.1	15612.7	11580.6	6921.7	3096.8
72.5°	10059.7	10400.5	11904.1	15301.8	19270.3	19207.7	17051.3	11639.2	6880.5	2779.6	1209.9
75°	7667.2	8011.9	9305.5	12088.9	15230.7	14706.2	12098.8	6429.7	2611.1	1103.8	763.0
77.5°	4410.5	4677.7	5676.7	7413.6	9662.6	9124.4	6734.4	2859.6	1271.2	769.2	595.7
80°	2462.4	2611.1	3218.0	3761.2	4735.1	4340.5	3013.2	1776.9	949.0	558.1	459.6
82.5°	1946.7	2079.0	2602.3	2372.6	2162.8	1995.4	1730.8	1582.2	758.0	352.1	274.7
85°	1700.8	1826.9	2202.7	1868.0	1477.3	1354.9	1406.0	1557.1	589.4	212.3	234.7
87.5°	1575.8	1744.5	1962.9	1439.8	1150.1	1018.9	1297.4	1707.0	189.8	132.4	95.0
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°	3728.7	3728.7	3728.7	3728.7	3728.7	3728.7	3728.7	3728.7	3728.7	3728.7	3728.7
2.5°	3683.7	3663.7	3631.3	3602.6	3557.6	3533.9	3507.6	3488.9	3473.9	3461.4	3481.4
5°	3570.1	3532.7	3464.0	3390.3	3302.9	3234.2	3176.8	3123.0	3085.6	3060.6	3078.1
7.5°	3462.6	3401.5	3294.2	3160.4	3010.7	2883.3	2778.4	2686.0	2622.3	2581.1	2597.3
10°	3401.5	3325.3	3159.2	2949.4	2728.4	2529.8	2365.1	2222.8	2124.0	2067.9	2076.6
12.5°	3386.5	3287.8	3058.1	2769.7	2467.5	2191.5	1959.3	1761.9	1623.3	1551.0	1553.3
15°	3397.7	3271.6	2963.1	2597.3	2215.2	1866.9	1577.2	1337.3	1176.3	1093.9	1092.6
17.5°	3416.6	3259.2	2863.3	2411.3	1959.3	1554.6	1231.2	996.5	854.1	788.0	783.0
20°	3436.5	3239.2	2750.9	2210.2	1693.2	1265.0	964.1	780.4	690.5	654.3	651.8
22.5°	3465.2	3221.7	2634.8	1997.9	1432.3	1030.1	792.9	669.2	621.8	603.1	600.6
25°	3511.5	3213.0	2511.2	1776.9	1197.5	861.7	690.5	614.4	587.0	574.3	573.2
27.5°	3588.8	3225.5	2395.1	1562.2	1006.6	748.0	633.0	587.0	566.9	555.7	554.4
30°	3688.7	3264.1	2272.7	1358.5	857.9	670.6	598.1	568.2	551.9	540.7	540.7
32.5°	3854.7	3329.1	2144.1	1182.6	751.7	616.9	572.0	551.9	538.3	529.5	528.3
35°	4099.5	3451.5	2024.2	1036.5	675.5	578.1	549.5	534.4	524.5	519.5	519.5
37.5°	4455.5	3645.1	1918.1	931.5	629.4	551.9	528.3	517.0	510.7	510.7	510.7
40°	4933.8	3912.3	1831.9	861.7	603.1	533.2	511.9	503.2	499.5	500.7	500.7
42.5°	5524.3	4259.5	1774.4	813.0	590.6	521.9	500.7	493.3	489.4	488.3	489.4
45°	6197.3	4653.9	1768.1	776.8	578.1	514.5	493.3	485.8	478.3	473.2	473.2
47.5°	6851.7	5054.9	1819.3	764.2	564.5	505.7	487.1	479.5	468.2	457.1	457.1
50°	7429.9	5395.7	1888.1	769.2	559.5	493.3	477.0	473.2	455.8	443.4	442.1
52.5°	7889.5	5658.0	1944.2	784.2	564.5	484.5	464.6	465.9	447.0	433.3	432.1
55°	8257.8	5830.3	1929.3	799.2	575.6	479.5	453.3	455.8	440.8	427.1	427.1
57.5°	8418.8	5766.6	1763.3	786.6	584.3	480.8	444.5	454.5	442.1	429.6	429.6
60°	8073.0	5200.9	1452.3	731.8	573.2	477.0	440.8	459.6	458.2	445.7	444.5
62.5°	7026.5	4188.2	1126.4	650.6	534.4	458.2	430.7	458.2	472.0	468.2	466.9
65°	5415.7	2983.2	860.3	563.1	482.0	427.1	404.5	429.6	448.3	453.3	452.0
67.5°	3515.2	1828.1	663.0	480.8	423.3	390.9	370.9	382.0	385.8	385.8	383.3
70°	1728.2	984.1	528.3	404.5	363.4	352.1	340.8	334.7	328.4	323.4	323.4
72.5°	852.9	643.0	434.6	342.2	313.4	308.5	306.0	298.4	293.4	287.2	284.8
75°	630.6	523.3	369.7	288.4	269.8	264.7	269.8	263.6	262.2	257.3	254.7
77.5°	518.2	445.7	318.4	247.3	231.0	222.3	229.7	231.0	232.2	224.8	222.3
80°	420.9	377.1	266.0	204.9	189.8	183.6	188.6	198.5	201.0	189.8	184.8
82.5°	303.4	308.5	214.8	159.9	147.3	142.3	152.4	164.7	167.4	151.1	147.3
85°	254.7	257.3	164.7	113.6	101.1	93.7	110.0	122.3	131.2	114.9	111.1
87.5°	106.1	151.1	95.0	63.7	56.2	48.7	58.7	64.9	78.7	72.5	71.1
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)