

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: P528621

Luminaire Tested: **GLAN-SA3D-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11273 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

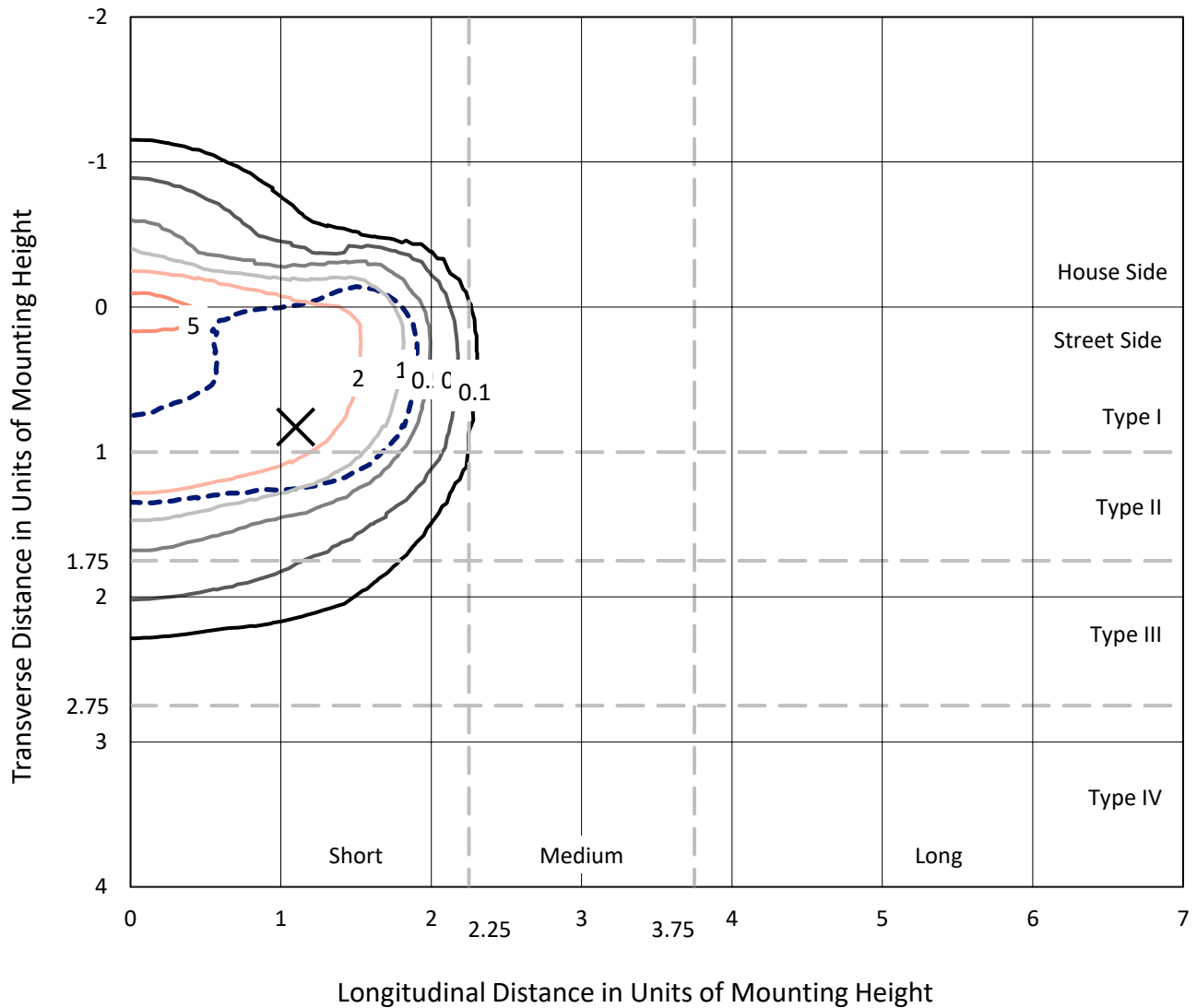
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

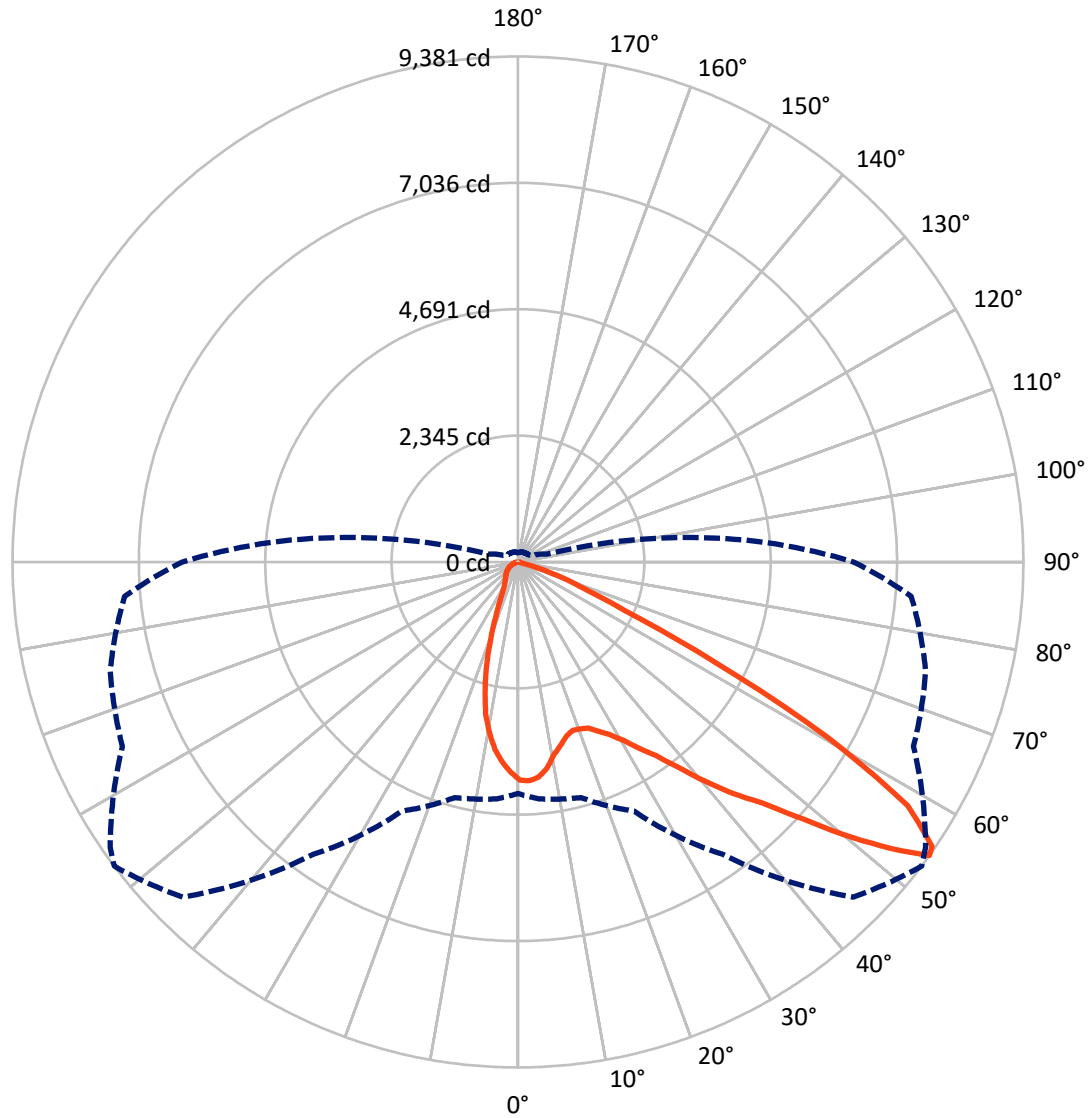
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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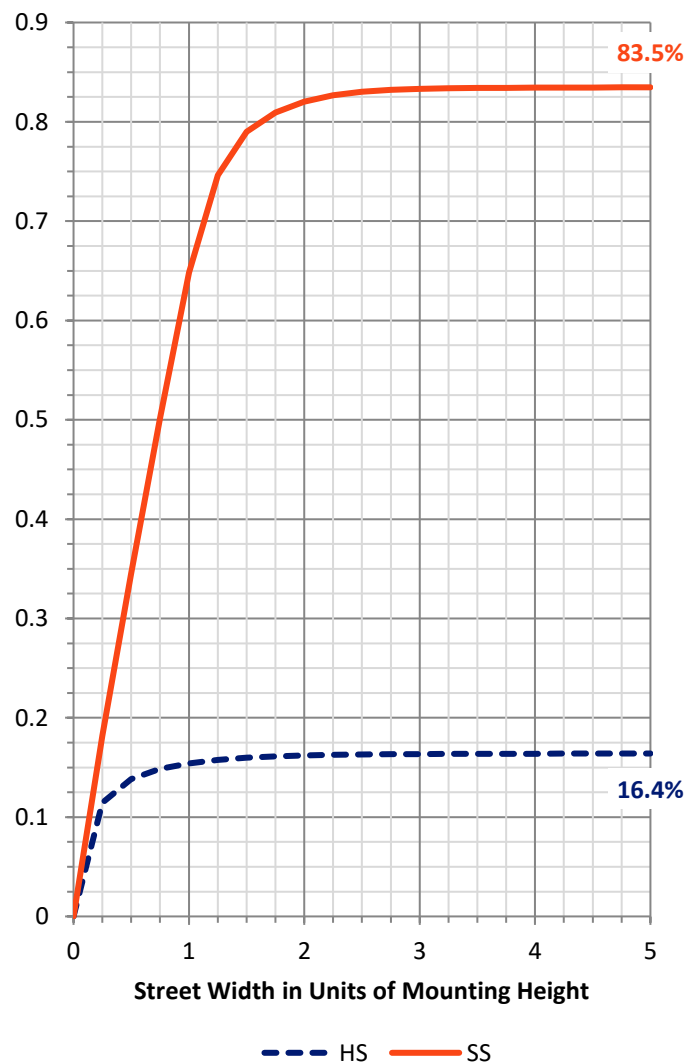
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1865.1	0.0	1865.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9407.8	0.0	9407.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	11273.0	0.0	11273.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.4	3.1
10°-20°	796.5	7.1
20°-30°	1132.0	10.0
30°-40°	1746.9	15.5
40°-50°	2739.0	24.3
50°-60°	3181.7	28.2
60°-70°	1202.3	10.7
70°-80°	114.3	1.0
80°-90°	12.9	0.1
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°	11273.0	100.0
0°-180°	11273.0	100.0



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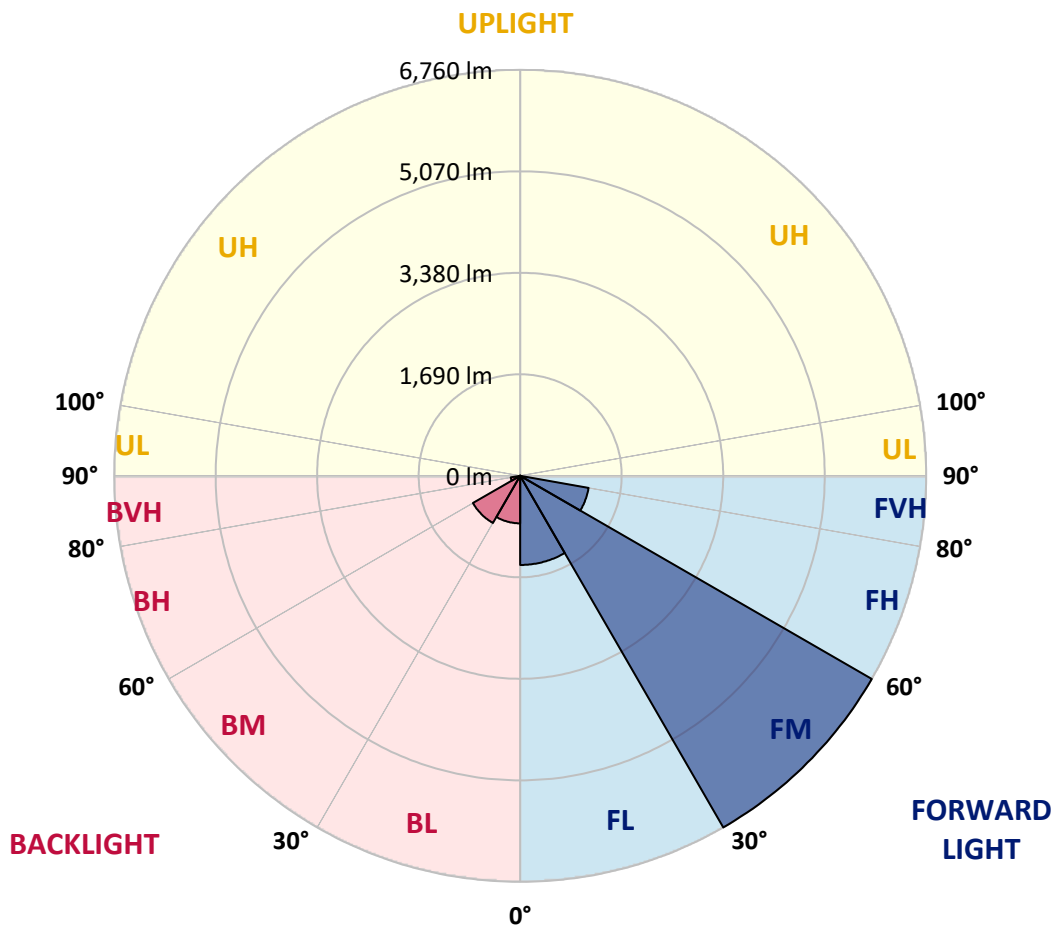
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1484.4	13.2			
FM (30°-60°)	6760.1	60.0			
FH (60°-80°)	1156.8	10.3			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	791.5	7.0	B2/1000		
BM (30°-60°)	907.6	8.1	B1/1000		
BH (60°-80°)	159.8	1.4	B1/500		G1/500
BVH (80°-90°)	6.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1
2.5°	4028.1	3992.4	4028.1	4032.3	4057.5	4080.6	4065.9	4099.5	4080.6	4059.6	4053.3
5°	3702.5	3750.9	3753.0	3828.6	3811.8	3950.4	4011.3	3994.5	4097.4	4091.1	4076.4
7.5°	3410.6	3391.7	3416.9	3505.1	3616.4	3776.1	3864.3	3862.2	4009.2	4114.2	4103.7
10°	3139.7	3137.6	3190.1	3259.4	3353.9	3521.9	3643.7	3704.6	3933.6	4093.2	4116.3
12.5°	2957.0	2948.6	3005.3	3062.0	3211.1	3341.3	3496.7	3526.1	3788.7	4019.7	4057.5
15°	2837.3	2856.2	2860.4	2969.6	3064.1	3236.3	3358.1	3419.0	3721.4	3960.9	4105.8
17.5°	2816.3	2841.5	2843.6	2933.9	3034.7	3179.6	3286.7	3368.6	3664.7	3990.3	4107.9
20°	2858.3	2843.6	2856.2	2912.9	3011.6	3150.2	3305.6	3332.9	3645.8	4005.0	4131.0
22.5°	2978.0	2973.8	2942.3	2988.5	3057.8	3202.7	3349.7	3391.7	3700.4	4080.6	4149.9
25°	3110.3	3133.4	3104.0	3097.7	3146.0	3288.8	3484.1	3538.7	3883.2	4217.1	4208.7
27.5°	3358.1	3335.0	3335.0	3305.6	3293.0	3362.3	3629.0	3719.3	4086.9	4393.5	4275.9
30°	3595.4	3620.6	3601.7	3612.2	3528.2	3521.9	3834.9	3946.2	4448.1	4662.3	4418.7
32.5°	3971.4	3937.8	3969.3	3942.0	3830.7	3717.2	4114.2	4229.7	4884.9	4971.0	4632.9
35°	4284.3	4269.6	4404.0	4399.8	4219.2	4107.9	4410.3	4582.5	5189.4	5340.7	4884.9
37.5°	4729.5	4702.2	4855.5	4929.0	4767.3	4601.4	4834.5	5034.0	5473.0	5636.8	5143.2
40°	5187.3	5256.7	5462.5	5584.3	5412.1	5191.5	5353.3	5414.2	5662.0	5830.0	5319.7
42.5°	5767.0	5867.8	6077.8	6182.8	6168.1	5928.7	5880.4	5878.3	5798.5	5775.4	5449.9
45°	6323.5	6285.7	6609.1	6838.1	7022.9	6953.6	6388.6	6325.6	6014.8	5857.3	5483.5
47.5°	6567.1	6554.5	6775.1	7182.5	7812.5	7898.6	7127.9	6884.3	6380.2	6201.7	5666.2
50°	6252.1	6317.2	6535.6	6987.2	7953.2	8610.6	8035.1	7707.5	6806.6	6621.7	6098.8
52.5°	5223.1	5267.2	5475.1	6048.4	7474.4	9030.6	8904.6	8715.6	7589.9	7283.3	6852.8
54°	4294.8	4412.4	4525.8	5101.2	6621.7	8797.5	9381.3	9236.4	8100.2	7833.5	7327.4
55°	3740.4	3809.7	3891.6	4464.9	6031.6	8402.7	9326.7	9339.3	8442.6	8005.7	7646.6
57.5°	2732.3	2780.6	2696.6	2950.7	4141.5	6823.4	8530.8	8871.0	8904.6	8264.1	7841.9
60°	2087.5	2108.5	2014.0	2053.9	2574.8	4683.3	6598.6	7008.2	8033.0	7222.4	6642.7
62.5°	1619.2	1623.4	1621.3	1690.6	1774.6	2755.4	4126.8	4490.1	5538.1	5128.5	4511.1
65°	1192.9	1174.0	1207.6	1417.6	1514.2	1732.6	2173.6	2438.3	3009.5	2541.2	1816.6
67.5°	772.9	779.2	812.8	1054.3	1297.9	1329.4	1337.8	1316.8	1318.9	726.6	455.7
70°	464.1	474.6	464.1	596.4	928.3	953.5	871.6	850.6	663.6	172.2	170.1
72.5°	275.1	260.4	233.1	256.2	386.4	462.0	415.8	413.7	260.4	100.8	100.8
75°	115.5	105.0	86.1	77.7	102.9	98.7	98.7	88.2	69.3	67.2	63.0
77.5°	23.1	23.1	16.8	18.9	25.2	29.4	35.7	35.7	42.0	42.0	39.9
80°	0.0	2.1	6.3	12.6	18.9	27.3	31.5	31.5	35.7	35.7	29.4
82.5°	0.0	2.1	6.3	12.6	16.8	25.2	31.5	31.5	35.7	37.8	31.5
85°	0.0	2.1	6.3	10.5	16.8	21.0	21.0	18.9	14.7	12.6	8.4
87.5°	0.0	0.0	2.1	4.2	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1
2.5°	4068.0	4065.9	4015.5	3933.6	3914.7	3845.4	3837.0	3795.0	3818.1	3740.4	3732.0
5°	4034.4	4009.2	3948.3	3895.8	3742.5	3633.2	3547.1	3442.1	3381.2	3391.7	3351.8
7.5°	4082.7	4017.6	3910.5	3727.7	3540.8	3349.7	3246.8	3032.6	2954.9	2839.4	2822.6
10°	4032.3	3984.0	3818.1	3515.6	3257.3	2982.2	2740.7	2503.4	2322.8	2245.1	2228.2
12.5°	4028.1	3944.1	3666.8	3330.8	2957.0	2562.2	2211.4	1915.3	1736.8	1636.0	1612.9
15°	3963.0	3862.2	3496.7	3045.2	2528.6	2037.1	1654.9	1369.3	1232.8	1174.0	1190.8
17.5°	3969.3	3818.1	3326.6	2742.8	2106.4	1495.3	1129.9	982.9	947.2	961.9	961.9
20°	3963.0	3719.3	3120.8	2394.2	1612.9	1037.5	829.6	777.1	800.2	846.4	835.9
22.5°	3929.4	3673.1	2931.8	2026.6	1186.6	768.7	665.7	667.8	703.5	760.3	772.9
25°	3954.6	3570.2	2692.4	1654.9	865.3	613.2	577.5	592.2	630.0	672.0	680.4
27.5°	3935.7	3496.7	2442.5	1285.3	632.1	527.1	525.0	541.8	558.6	590.1	590.1
30°	3956.7	3429.5	2196.7	955.6	520.8	483.0	474.6	487.2	504.0	510.3	508.2
32.5°	4034.4	3379.1	1913.2	714.0	459.9	441.0	441.0	441.0	438.9	447.3	449.4
35°	4204.5	3387.5	1663.3	552.3	420.0	405.3	399.0	390.6	386.4	390.6	392.7
37.5°	4389.3	3383.3	1405.0	470.4	390.6	378.0	363.3	350.7	348.6	352.8	346.5
40°	4471.2	3423.2	1165.6	422.1	363.3	348.6	325.5	315.0	317.1	321.3	317.1
42.5°	4582.5	3435.8	1010.2	384.3	338.1	315.0	300.3	287.7	285.6	291.9	289.8
45°	4580.4	3364.4	846.4	363.3	315.0	289.8	270.9	260.4	260.4	264.6	266.7
47.5°	4714.8	3353.9	726.6	344.4	298.2	273.0	249.9	241.5	239.4	239.4	235.2
50°	5027.7	3500.9	634.2	323.4	277.2	254.1	235.2	224.7	216.3	212.1	210.0
52.5°	5638.9	3958.8	562.8	298.2	254.1	235.2	218.4	210.0	199.5	189.0	186.9
54°	6231.1	4431.3	558.6	277.2	235.2	222.6	207.9	203.7	191.1	176.4	172.2
55°	6497.8	4706.4	573.3	260.4	222.6	214.2	201.6	197.4	184.8	168.0	165.9
57.5°	6718.4	4813.5	564.9	216.3	201.6	199.5	189.0	182.7	168.0	144.9	140.7
60°	5407.9	3639.5	405.3	191.1	184.8	180.6	172.2	168.0	149.1	123.9	121.8
62.5°	3416.9	2093.8	258.3	168.0	161.7	155.4	144.9	140.7	123.9	98.7	92.4
65°	1455.4	867.4	174.3	149.1	138.6	128.1	119.7	113.4	98.7	73.5	71.4
67.5°	378.0	308.7	144.9	130.2	115.5	100.8	94.5	84.0	67.2	50.4	48.3
70°	170.1	155.4	121.8	109.2	92.4	77.7	69.3	58.8	44.1	33.6	31.5
72.5°	100.8	98.7	92.4	81.9	69.3	58.8	50.4	39.9	29.4	18.9	18.9
75°	63.0	60.9	63.0	56.7	48.3	44.1	37.8	27.3	16.8	8.4	8.4
77.5°	37.8	37.8	37.8	35.7	33.6	33.6	27.3	16.8	8.4	2.1	2.1
80°	29.4	29.4	31.5	29.4	29.4	29.4	23.1	12.6	4.2	0.0	0.0
82.5°	29.4	31.5	35.7	33.6	29.4	25.2	21.0	12.6	4.2	0.0	0.0
85°	8.4	6.3	10.5	14.7	21.0	18.9	14.7	10.5	4.2	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	2.1	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)