

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: P268825

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL2-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45290.5 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

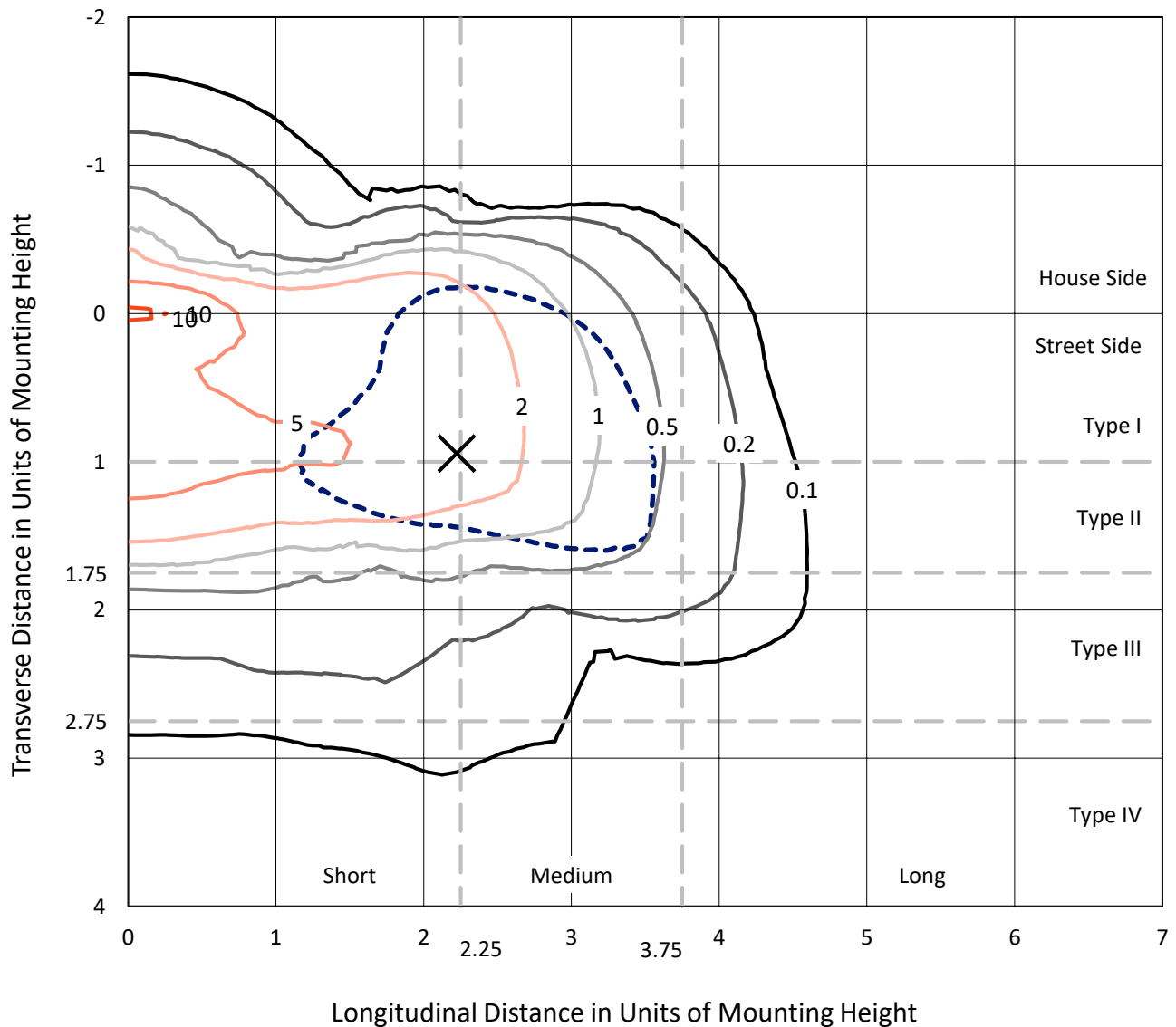
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

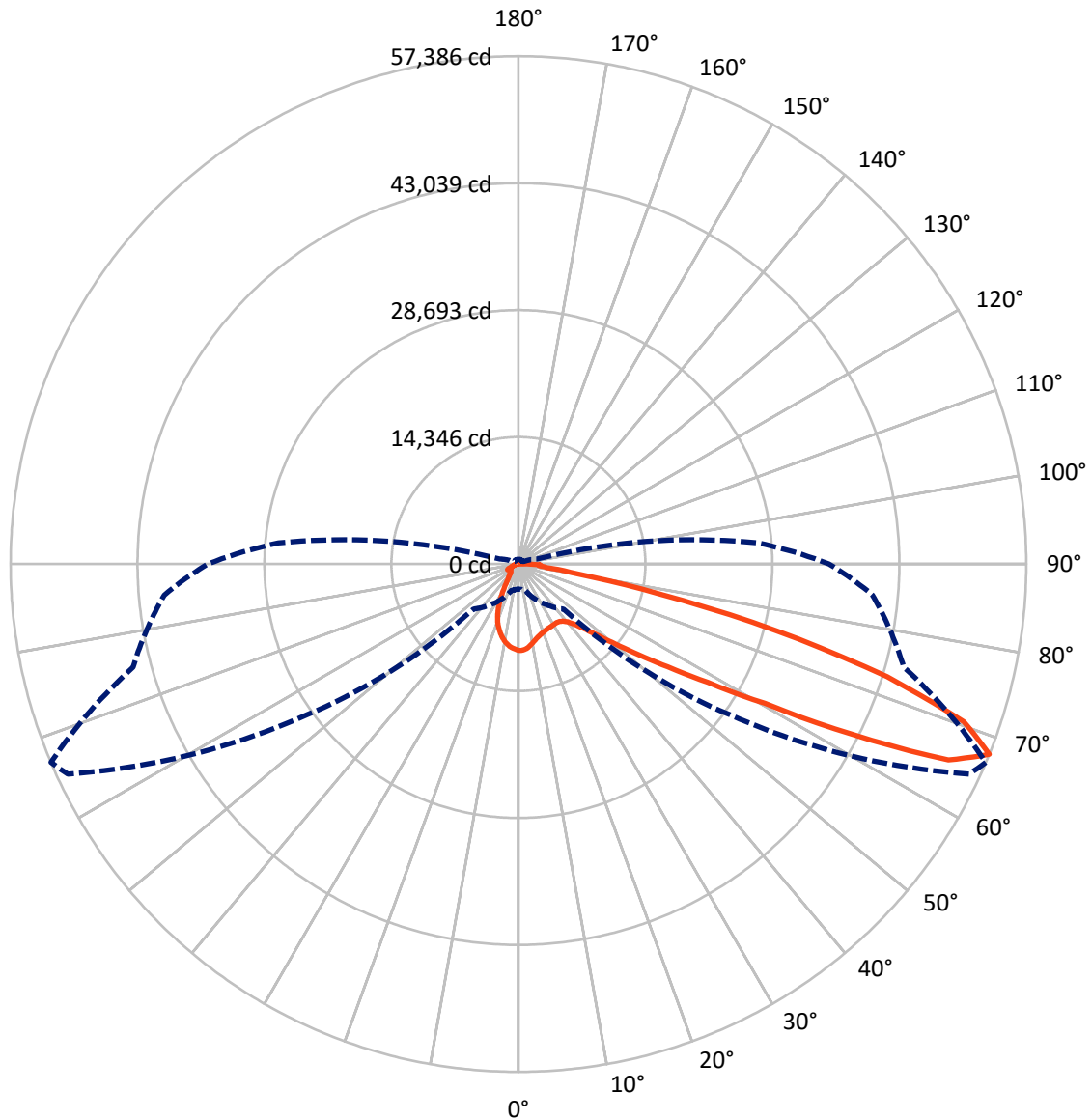


Based on 30 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7504.1	0.0	7504.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	37786.3	0.0	37786.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	45290.5	0.0	45290.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.5	1.8
10°-20°	1928.5	4.3
20°-30°	2614.1	5.8
30°-40°	3716.2	8.2
40°-50°	6217.3	13.7
50°-60°	9835.7	21.7
60°-70°	12529.7	27.7
70°-80°	6563.0	14.5
80°-90°	1052.6	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°	45290.5	100.0
0°-180°	45290.5	100.0

Coefficient of Utilization



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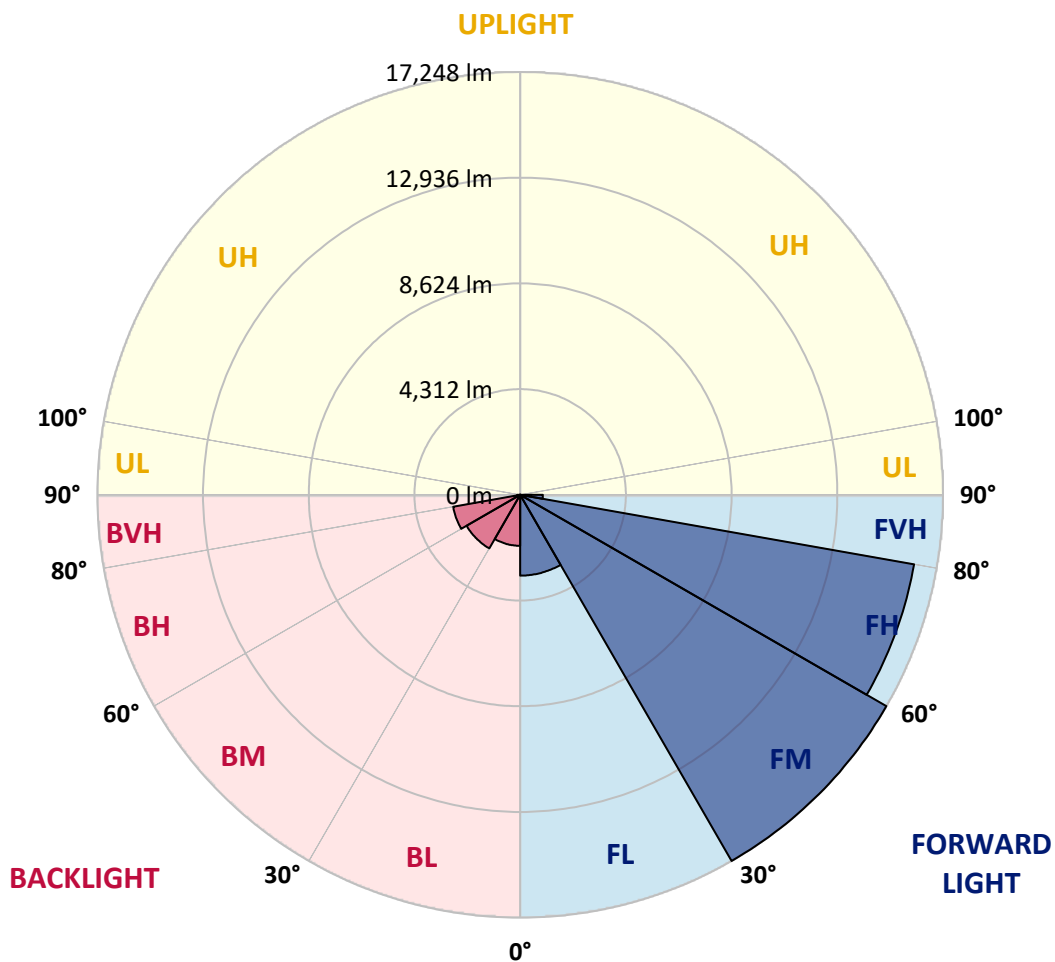
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3296.0	7.3			
FM	(30°-60°)	17247.5	38.1			
FH	(60°-80°)	16317.2	36.0			G5
FVH	(80°-90°)	925.5	2.0			G5
BL	(0°-30°)	2079.9	4.6	B3/2500		
BM	(30°-60°)	2521.6	5.6	B3/5000		
BH	(60°-80°)	2775.5	6.1	B4/5000		G4/5000
BVH	(80°-90°)	127.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9769.1	9769.1	9769.1	9769.1	9769.1	9769.1	9769.1	9769.1	9769.1	9769.1	9769.1
2.5°	9367.0	9382.6	9431.8	9463.0	9603.8	9664.1	9706.5	9748.9	9755.7	9775.7	9755.7
5°	8384.3	8417.7	8509.4	8612.1	8884.5	9099.0	9324.5	9559.1	9601.5	9753.3	9795.8
7.5°	7622.7	7613.8	7689.8	7812.6	8091.8	8388.8	8784.0	9250.8	9342.5	9684.2	9849.5
10°	7066.5	7059.9	7140.3	7267.6	7533.4	7814.7	8261.5	8900.2	9029.8	9574.8	9900.8
12.5°	6655.6	6657.9	6738.2	6879.0	7149.3	7432.8	7886.3	8560.8	8726.0	9447.5	9954.4
15°	6383.1	6401.1	6465.8	6615.5	6879.0	7162.6	7607.0	8306.2	8491.5	9347.0	10014.8
17.5°	6291.5	6320.7	6342.9	6452.3	6678.0	6961.7	7397.2	8118.5	8315.2	9277.6	10068.4
20°	6376.4	6409.9	6367.5	6405.5	6548.5	6798.6	7231.9	7971.1	8172.2	9199.5	10075.0
22.5°	6740.5	6771.8	6646.6	6537.2	6528.3	6680.2	7095.6	7855.0	8062.6	9141.4	10077.2
25°	7381.6	7401.7	7191.7	6937.0	6689.0	6637.8	6999.7	7774.7	7995.8	9090.0	10034.8
27.5°	8167.7	8183.3	7942.0	7566.9	7068.9	6738.2	6966.0	7727.7	7957.7	9045.5	9963.3
30°	9123.5	9197.2	8873.5	8400.0	7674.1	7035.3	7033.1	7703.1	7915.2	8969.4	9822.6
32.5°	10101.8	10133.2	9909.7	9429.6	8489.3	7557.9	7220.7	7721.0	7904.1	8877.9	9643.9
35°	11093.4	11133.7	10988.4	10602.2	9603.8	8324.1	7586.9	7825.9	7973.4	8846.7	9518.9
37.5°	12377.7	12431.3	12230.2	11783.5	10959.4	9362.6	8196.8	8089.4	8185.5	8936.0	9480.9
40°	14407.8	14383.3	13795.9	13130.3	12442.5	10691.4	9067.8	8536.1	8592.0	9224.1	9597.0
42.5°	16770.8	16710.5	15698.8	14653.5	14072.8	12299.6	10220.1	9311.2	9300.1	9791.3	10005.9
45°	18655.9	18606.8	17695.5	16406.9	15942.3	14131.0	11709.9	10465.9	10383.1	10691.4	10760.6
47.5°	19676.6	19678.8	19153.9	18101.9	18090.8	16458.1	13624.0	12136.6	11993.5	12138.6	12065.0
50°	19319.2	19366.1	19310.2	18975.3	20051.7	19509.0	16123.1	14465.9	14177.8	14320.8	14037.2
52.5°	17590.5	17650.8	17981.5	18495.1	20875.9	23196.5	19795.0	17360.5	17025.4	16974.2	16659.2
55°	14526.2	14600.0	15274.5	16670.3	20190.2	25673.3	25588.5	21050.2	20516.3	20031.7	19897.6
57.5°	10012.5	10135.3	11220.8	13293.4	17972.4	26421.5	32487.6	26309.9	25224.3	23531.6	23562.7
60°	5644.0	5786.8	7066.5	8949.4	13496.7	25608.5	37736.1	34276.4	31985.1	27629.8	27862.1
62.5°	3589.1	3743.2	4714.8	6217.9	8098.4	21231.0	39886.9	45352.1	42442.0	32681.9	32909.6
65°	2905.7	2972.8	3430.5	5132.5	5880.7	12790.8	38254.2	54475.6	53390.3	39094.1	38031.0
67.5°	2836.5	2858.8	3095.5	4308.4	5639.4	7189.5	30513.2	56182.1	57385.9	45081.9	40163.8
70°	2802.9	2881.1	3488.6	4111.7	5400.4	6063.7	18336.6	51505.2	53405.9	46647.5	37325.1
72.5°	1360.2	1355.7	1755.5	3718.7	6084.0	6289.4	9420.6	41673.6	43581.0	40413.9	30671.8
75°	1096.7	1002.8	958.1	1362.4	5849.4	6494.8	6003.5	28675.1	30055.3	27096.0	18854.6
77.5°	1040.7	929.0	851.0	853.2	2472.4	6887.9	5085.6	15870.7	16272.7	12239.1	5166.0
80°	862.2	759.3	703.6	792.8	1197.1	6559.7	5498.7	7182.7	6590.9	3006.2	1719.7
82.5°	598.6	544.9	529.3	665.6	958.1	4674.6	6394.3	3859.4	3236.2	1505.3	1060.9
85°	381.9	326.1	361.7	484.6	746.0	2157.5	6586.5	3008.5	2391.9	955.8	598.6
87.5°	176.4	142.9	178.7	268.1	486.9	743.7	6267.0	3379.2	2463.5	504.8	377.5
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°	9769.1	9769.1	9769.1	9769.1	9769.1	9769.1	9769.1	9769.1	9769.1	9769.1	9769.1
2.5°	9773.5	9731.1	9697.6	9635.0	9565.8	9498.8	9438.5	9362.6	9340.2	9320.2	9351.4
5°	9804.8	9762.3	9639.5	9447.5	9235.3	9036.5	8837.6	8667.9	8563.1	8505.0	8538.4
7.5°	9851.7	9791.3	9536.8	9183.9	8802.0	8453.5	8094.0	7805.8	7593.7	7493.2	7522.1
10°	9894.1	9778.1	9362.6	8833.3	8274.8	7756.8	7189.5	6720.4	6371.9	6188.9	6233.5
12.5°	9912.0	9726.6	9119.1	8395.5	7629.5	6870.1	6034.8	5333.4	4833.2	4649.9	4612.1
15°	9929.9	9668.5	8851.1	7897.4	6849.9	5775.7	4605.3	3765.5	3350.1	3258.6	3238.5
17.5°	9934.4	9568.0	8547.4	7356.8	5936.4	4473.6	3149.2	2615.3	2617.7	2765.1	2782.9
20°	9887.5	9418.4	8178.9	6684.6	4842.0	3093.4	2162.0	2070.5	2407.6	2776.1	2820.9
22.5°	9780.1	9219.7	7761.1	5900.7	3589.1	2036.8	1672.9	1773.3	2208.8	2660.1	2711.4
25°	9643.9	8978.4	7267.6	4991.7	2376.3	1456.2	1402.7	1525.4	1820.2	2121.7	2150.8
27.5°	9458.7	8692.4	6713.8	3950.9	1543.3	1199.3	1235.1	1317.8	1438.4	1572.4	1585.8
30°	9219.7	8350.9	6121.9	2881.1	1165.8	1078.8	1130.1	1174.9	1226.1	1302.2	1308.8
32.5°	8945.0	8022.6	5514.3	1989.9	1034.0	1016.3	1056.3	1078.8	1119.0	1165.8	1170.3
35°	8714.8	7709.9	4884.5	1407.0	978.3	969.4	996.1	1005.1	1043.0	1094.3	1098.8
37.5°	8583.0	7455.3	4234.6	1134.6	940.3	927.0	942.5	942.5	996.1	1072.0	1083.3
40°	8592.0	7314.4	3584.6	1025.1	909.1	891.2	893.4	893.4	962.7	1045.3	1051.9
42.5°	8835.5	7350.2	3008.5	982.7	884.4	864.3	853.2	859.9	918.0	971.5	976.0
45°	9407.2	7602.6	2468.0	955.8	859.9	853.2	828.5	826.4	848.7	873.2	873.2
47.5°	10345.3	8100.6	2101.7	938.0	839.7	837.5	808.6	779.5	777.3	786.1	786.1
50°	11870.7	8958.3	1856.0	918.0	826.4	808.6	775.0	730.3	714.7	721.3	721.3
52.5°	14157.7	10488.3	1762.1	891.2	797.3	768.3	730.3	685.6	672.2	674.4	674.4
55°	17157.3	12837.8	1748.8	859.9	766.1	719.2	687.9	654.3	638.8	643.2	643.2
57.5°	20822.4	16087.4	1987.8	810.7	723.7	670.0	652.2	629.8	618.7	625.4	623.2
60°	25278.0	20340.0	2948.1	759.3	681.3	625.4	625.4	607.6	598.6	605.3	603.0
62.5°	30410.4	25224.3	4145.3	721.3	636.4	589.6	598.6	589.6	580.7	585.2	582.9
65°	34962.2	28407.0	3881.7	692.4	591.9	556.1	571.7	567.3	560.6	565.0	562.8
67.5°	35093.9	27227.7	2179.8	661.2	549.5	522.6	544.9	542.8	538.3	542.8	540.5
70°	31319.4	22991.0	1228.4	603.0	504.8	482.4	513.7	511.5	507.1	515.9	513.7
72.5°	25092.6	16683.7	897.9	531.5	460.1	440.0	475.7	473.4	473.4	486.9	480.1
75°	14439.1	8585.3	716.9	455.6	413.2	397.6	428.9	431.0	435.5	453.4	440.0
77.5°	4116.3	2675.6	585.2	386.5	355.1	348.5	379.7	384.1	386.5	406.6	388.5
80°	1530.0	1232.8	482.4	323.8	290.3	292.6	321.7	328.3	330.5	350.7	328.3
82.5°	976.0	813.0	390.9	250.2	227.8	225.6	261.2	270.2	270.2	272.5	259.2
85°	569.5	486.9	294.9	180.9	160.7	154.1	194.4	209.9	203.2	198.7	189.8
87.5°	381.9	335.0	180.9	100.5	87.0	82.6	113.9	125.0	120.6	113.9	107.2
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)