

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: P529571

Luminaire Tested: **GLAN-SA4D-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15565 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

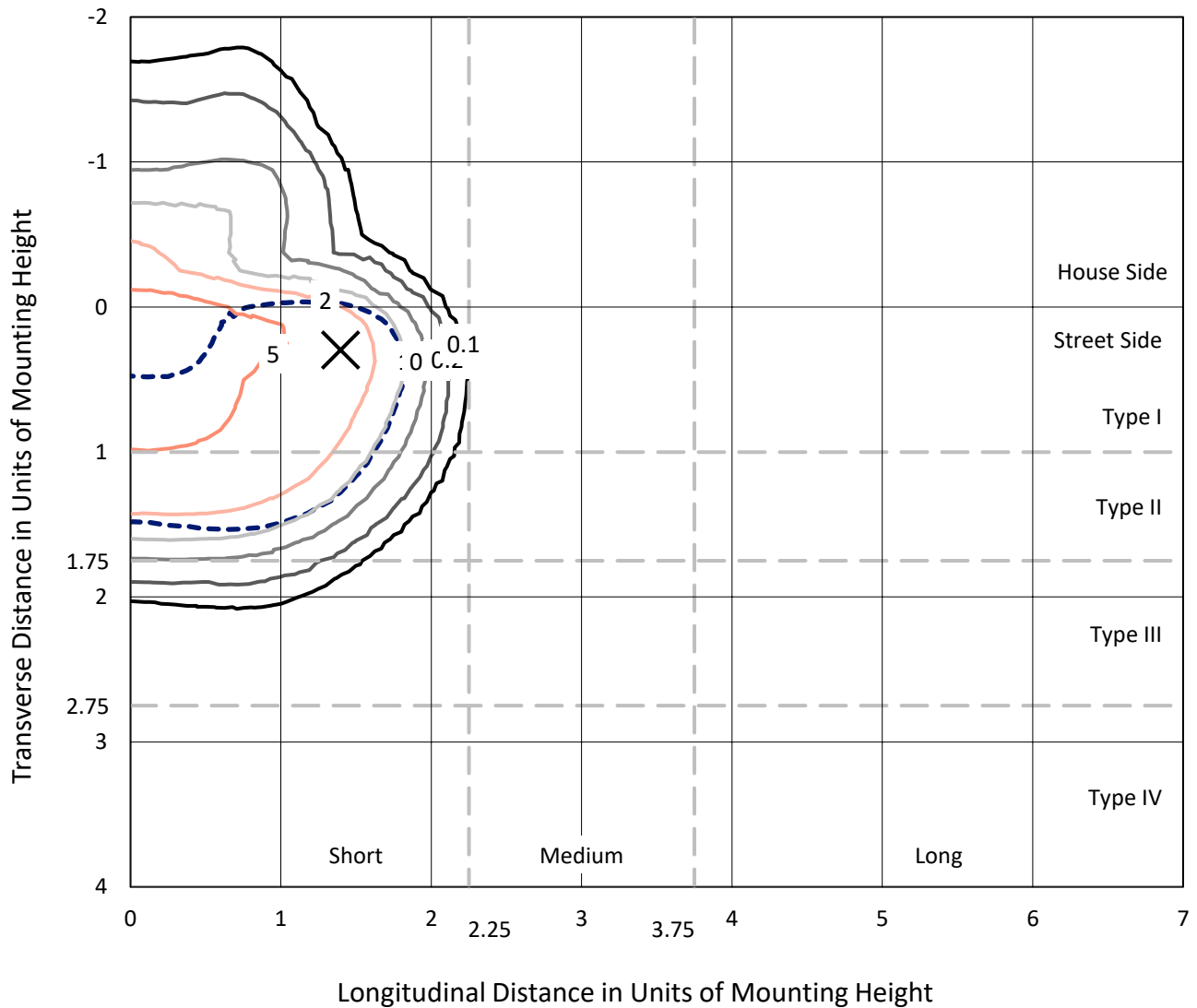
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

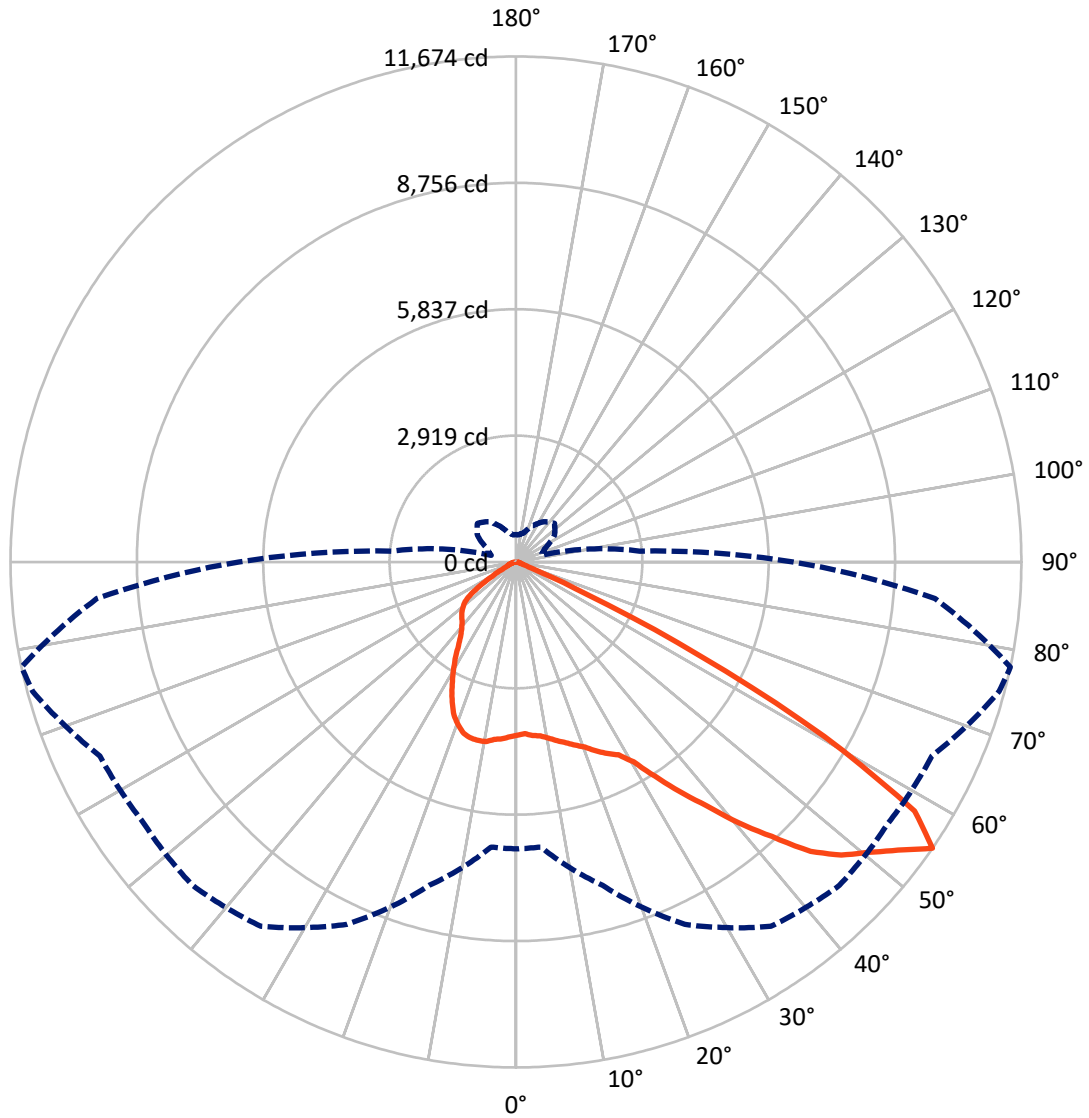
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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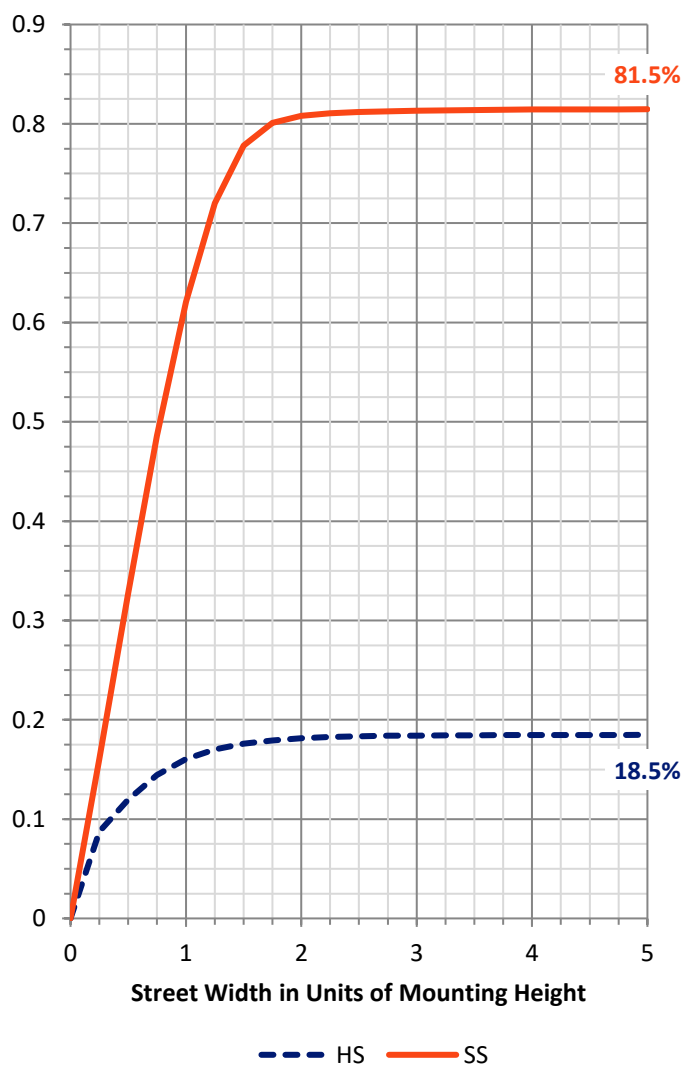
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2891.0	0.0	2891.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12674.0	0.0	12674.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	15565.0	0.0	15565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.8	2.3
10°-20°	944.4	6.1
20°-30°	1655.3	10.6
30°-40°	2729.4	17.5
40°-50°	3971.6	25.5
50°-60°	4500.2	28.9
60°-70°	1286.7	8.3
70°-80°	99.9	0.6
80°-90°	20.8	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°	15565.0	100.0
0°-180°	15565.0	100.0

Coefficient of Utilization



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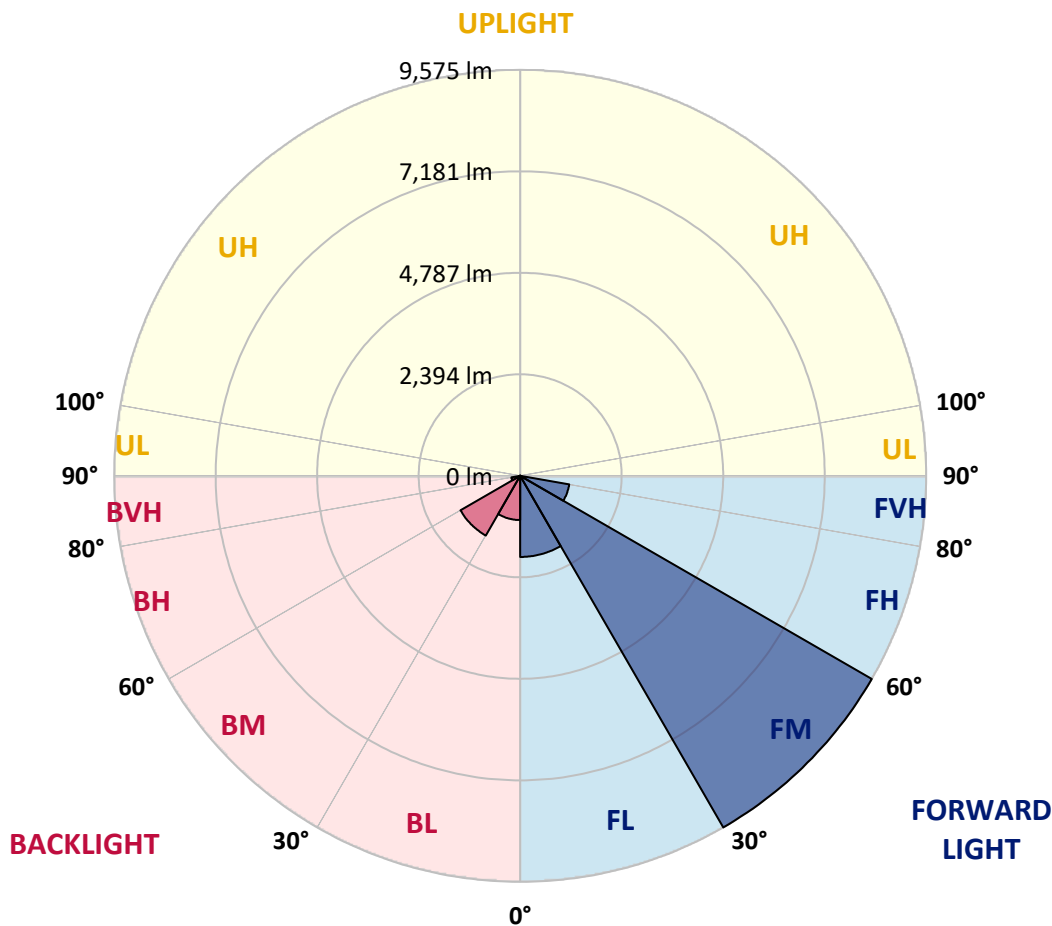
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1913.4	12.3			
FM (30°-60°)	9574.9	61.5			
FH (60°-80°)	1175.6	7.6			G1/1800
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	1043.1	6.7	B3/2500		
BM (30°-60°)	1626.2	10.4	B2/2500		
BH (60°-80°)	211.0	1.4	B1/500		G1/500
BVH (80°-90°)	10.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4001.8	4001.8	4001.8	4001.8	4001.8	4001.8	4001.8	4001.8	4001.8	4001.8	4001.8
2.5°	3762.4	3798.6	3804.2	3848.7	3845.9	3921.1	3943.3	3946.1	3996.2	3971.2	4035.2
5°	3656.7	3637.2	3628.9	3706.8	3729.0	3795.8	3851.5	3884.9	3987.9	4024.0	4090.8
7.5°	3562.1	3562.1	3567.6	3637.2	3628.9	3715.1	3773.6	3876.5	4026.8	4057.4	4138.1
10°	3470.2	3436.8	3478.6	3550.9	3612.2	3651.1	3773.6	3871.0	4046.3	4135.3	4246.7
12.5°	3422.9	3439.6	3445.2	3498.1	3564.9	3681.7	3748.5	3909.9	4185.4	4238.3	4358.0
15°	3720.7	3687.3	3606.6	3559.3	3615.0	3670.6	3837.6	4001.8	4257.8	4332.9	4466.5
17.5°	4065.8	4037.9	3971.2	3843.1	3717.9	3820.9	3951.7	4102.0	4335.7	4447.0	4644.6
20°	4516.6	4472.1	4405.3	4154.8	4046.3	3935.0	4074.1	4252.2	4463.7	4563.9	4767.1
22.5°	5053.7	5053.7	4903.4	4600.1	4374.7	4268.9	4327.4	4430.3	4605.7	4742.0	4942.4
25°	5613.1	5596.4	5460.0	5145.5	4764.3	4639.0	4705.8	4778.2	4825.5	4900.6	5034.2
27.5°	6253.1	6155.7	5983.2	5635.3	5298.6	5056.5	5128.8	5064.8	5006.4	5045.3	5237.4
30°	6687.2	6748.5	6528.6	6194.7	5877.4	5607.5	5621.4	5565.7	5298.6	5354.2	5468.3
32.5°	7138.1	7177.0	7054.6	6870.9	6553.7	6239.2	6125.1	6077.8	5877.4	5902.5	5791.2
35°	7513.8	7588.9	7480.4	7399.7	7307.8	7054.6	6740.1	6893.2	6570.4	6509.1	6219.7
37.5°	7858.8	7836.6	7964.6	7881.1	7861.6	7683.5	7338.4	7369.0	7152.0	7138.1	6804.1
40°	8167.7	8173.3	8348.6	8387.6	8309.7	7992.4	7491.5	7733.6	7908.9	7925.6	7497.1
42.5°	8423.8	8498.9	8649.2	8963.6	8846.8	8318.0	7650.1	7914.5	8565.7	8668.6	8153.8
45°	8646.4	8799.4	8985.9	9267.0	9200.2	8780.0	8045.3	8287.4	9267.0	9536.9	8771.6
47.5°	8660.3	8860.7	9063.8	9481.2	9564.7	9027.6	8454.4	8877.4	9823.5	10115.7	9222.4
50°	8604.6	8710.4	9116.7	9570.3	9759.5	9431.2	9027.6	9372.7	10363.4	10547.1	9450.6
52.5°	7945.1	8025.8	8841.2	9653.8	10110.2	9887.5	9787.4	10062.9	10914.4	11050.8	9664.9
55°	6623.2	6609.3	7730.8	9233.6	10271.6	10563.8	10502.6	10600.0	11551.7	11674.2	9717.8
57.5°	4530.5	4783.8	5752.2	7689.1	9283.7	10405.2	10469.2	10307.8	10808.7	10856.0	8471.1
60°	2443.4	2549.1	3328.3	5131.6	7068.5	8479.4	8646.4	8354.2	8315.2	8181.6	6047.2
62.5°	971.2	1024.1	1466.6	2540.8	3851.5	5153.9	5512.9	5393.2	5137.2	4786.5	3130.7
65°	462.0	495.4	729.1	1188.3	1708.7	2148.4	2507.4	2618.7	1931.3	1739.3	1032.4
67.5°	314.5	339.5	531.5	679.0	609.4	637.3	829.3	770.9	453.6	386.8	286.6
70°	239.3	256.0	425.8	462.0	272.7	192.0	214.3	200.4	186.5	189.2	186.5
72.5°	169.8	183.7	311.7	272.7	119.7	89.1	114.1	136.4	136.4	136.4	133.6
75°	103.0	116.9	180.9	105.7	47.3	47.3	72.4	91.8	97.4	100.2	94.6
77.5°	52.9	66.8	61.2	30.6	30.6	36.2	52.9	64.0	69.6	69.6	66.8
80°	11.1	11.1	11.1	16.7	30.6	39.0	52.9	58.4	66.8	66.8	61.2
82.5°	0.0	2.8	8.3	16.7	27.8	36.2	50.1	58.4	66.8	69.6	64.0
85°	0.0	2.8	5.6	11.1	19.5	22.3	19.5	16.7	16.7	16.7	16.7
87.5°	0.0	0.0	2.8	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6
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°	4001.8	4001.8	4001.8	4001.8	4001.8	4001.8	4001.8	4001.8	4001.8	4001.8	4001.8
2.5°	4040.7	4049.1	4035.2	4032.4	4021.3	4054.6	3973.9	3954.5	4004.6	3957.2	3968.4
5°	4093.6	4113.1	4088.0	4046.3	3985.1	3890.5	3809.8	3704.0	3653.9	3617.7	3612.2
7.5°	4132.6	4146.5	4121.4	3987.9	3804.2	3564.9	3386.8	3256.0	3153.0	3122.4	3072.3
10°	4291.2	4294.0	4168.7	3873.8	3514.8	3200.3	2927.6	2727.2	2624.2	2560.2	2532.4
12.5°	4396.9	4391.4	4138.1	3648.3	3169.7	2752.3	2440.6	2198.5	2103.9	2073.2	2053.8
15°	4530.5	4499.9	4065.8	3417.4	2724.4	2273.6	1992.5	1825.6	1817.2	1797.7	1817.2
17.5°	4636.3	4550.0	3960.0	2997.2	2298.7	1872.9	1689.2	1700.3	1722.6	1742.1	1744.9
20°	4808.8	4630.7	3717.9	2629.8	1903.5	1605.7	1602.9	1653.0	1708.7	1730.9	1753.2
22.5°	4939.6	4664.1	3459.1	2237.4	1580.7	1497.2	1544.5	1619.6	1661.4	1683.6	1717.0
25°	4986.9	4572.3	3114.0	1845.0	1424.8	1447.1	1519.4	1569.5	1622.4	1647.5	1633.5
27.5°	5034.2	4525.0	2702.2	1519.4	1341.3	1413.7	1474.9	1525.0	1541.7	1575.1	1597.4
30°	5148.3	4360.8	2332.0	1313.5	1299.6	1391.4	1436.0	1452.7	1497.2	1516.7	1516.7
32.5°	5240.1	4296.8	1939.7	1216.1	1294.0	1402.6	1408.1	1408.1	1413.7	1399.8	1394.2
35°	5429.4	4076.9	1589.0	1157.7	1291.3	1405.4	1419.3	1372.0	1243.9	1193.9	1179.9
37.5°	5663.1	3935.0	1330.2	1143.8	1310.7	1438.7	1461.0	1282.9	1115.9	1035.2	1021.3
40°	5947.0	3834.8	1160.5	1138.2	1355.3	1516.7	1449.9	1213.3	996.3	879.4	873.8
42.5°	6278.2	3743.0	1046.4	1135.4	1410.9	1597.4	1438.7	1154.9	873.8	795.9	807.0
45°	6542.5	3692.9	968.4	1115.9	1430.4	1644.7	1447.1	1051.9	823.7	773.6	779.2
47.5°	6748.5	3587.1	904.4	1082.5	1427.6	1661.4	1372.0	1010.2	798.7	812.6	826.5
50°	6754.0	3445.2	823.7	1010.2	1385.9	1630.8	1285.7	971.2	793.1	851.6	879.4
52.5°	6678.9	3244.8	737.5	907.2	1288.5	1525.0	1207.8	954.5	768.1	762.5	795.9
55°	6411.7	2869.1	592.8	734.7	1088.1	1257.9	1138.2	923.9	692.9	628.9	634.5
57.5°	5181.7	2056.5	436.9	526.0	770.9	921.1	1026.9	910.0	623.4	534.3	537.1
60°	3208.7	1166.0	320.0	359.0	475.9	559.4	832.1	846.0	556.6	450.8	445.3
62.5°	1647.5	576.1	247.7	253.2	292.2	328.4	570.5	709.6	503.7	428.6	428.6
65°	551.0	283.9	217.1	194.8	194.8	203.1	345.1	492.6	425.8	359.0	359.0
67.5°	236.5	211.5	189.2	169.8	155.8	147.5	194.8	286.6	317.2	272.7	261.6
70°	183.7	178.1	164.2	141.9	122.4	111.3	114.1	147.5	180.9	175.3	169.8
72.5°	136.4	136.4	130.8	111.3	94.6	80.7	75.1	77.9	86.3	89.1	91.8
75°	94.6	97.4	97.4	86.3	69.6	58.4	50.1	41.7	33.4	27.8	25.0
77.5°	64.0	66.8	72.4	64.0	52.9	39.0	30.6	22.3	13.9	5.6	5.6
80°	55.7	64.0	69.6	64.0	55.7	41.7	30.6	16.7	8.3	0.0	0.0
82.5°	58.4	64.0	72.4	61.2	52.9	39.0	30.6	19.5	8.3	2.8	0.0
85°	13.9	13.9	16.7	19.5	25.0	27.8	22.3	13.9	8.3	2.8	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	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)