

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: P459506

Luminaire Tested: **GLAN-SA9C-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 59264 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

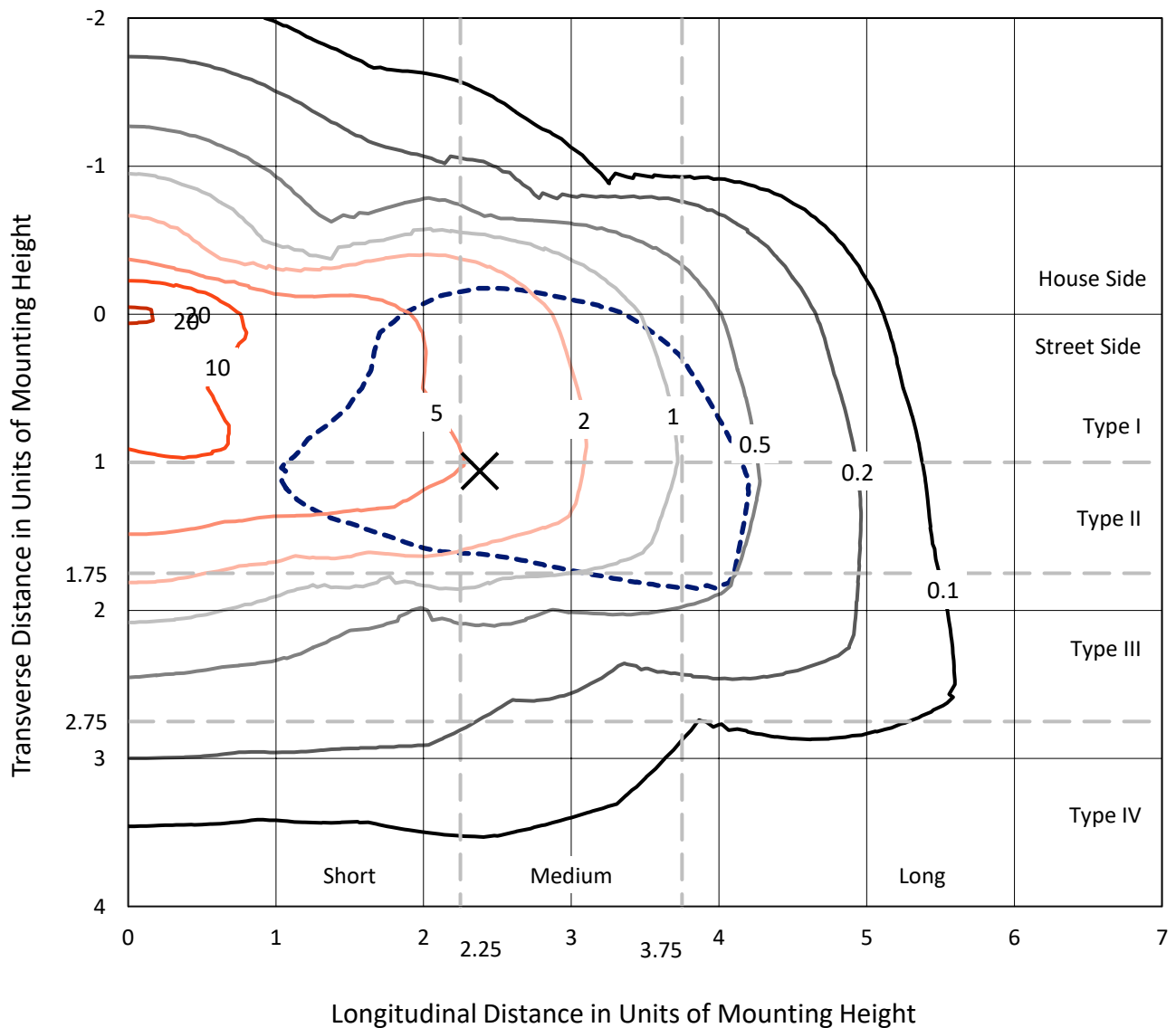
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459506
 CATALOG NUMBER: GLAN-SA9C-735-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

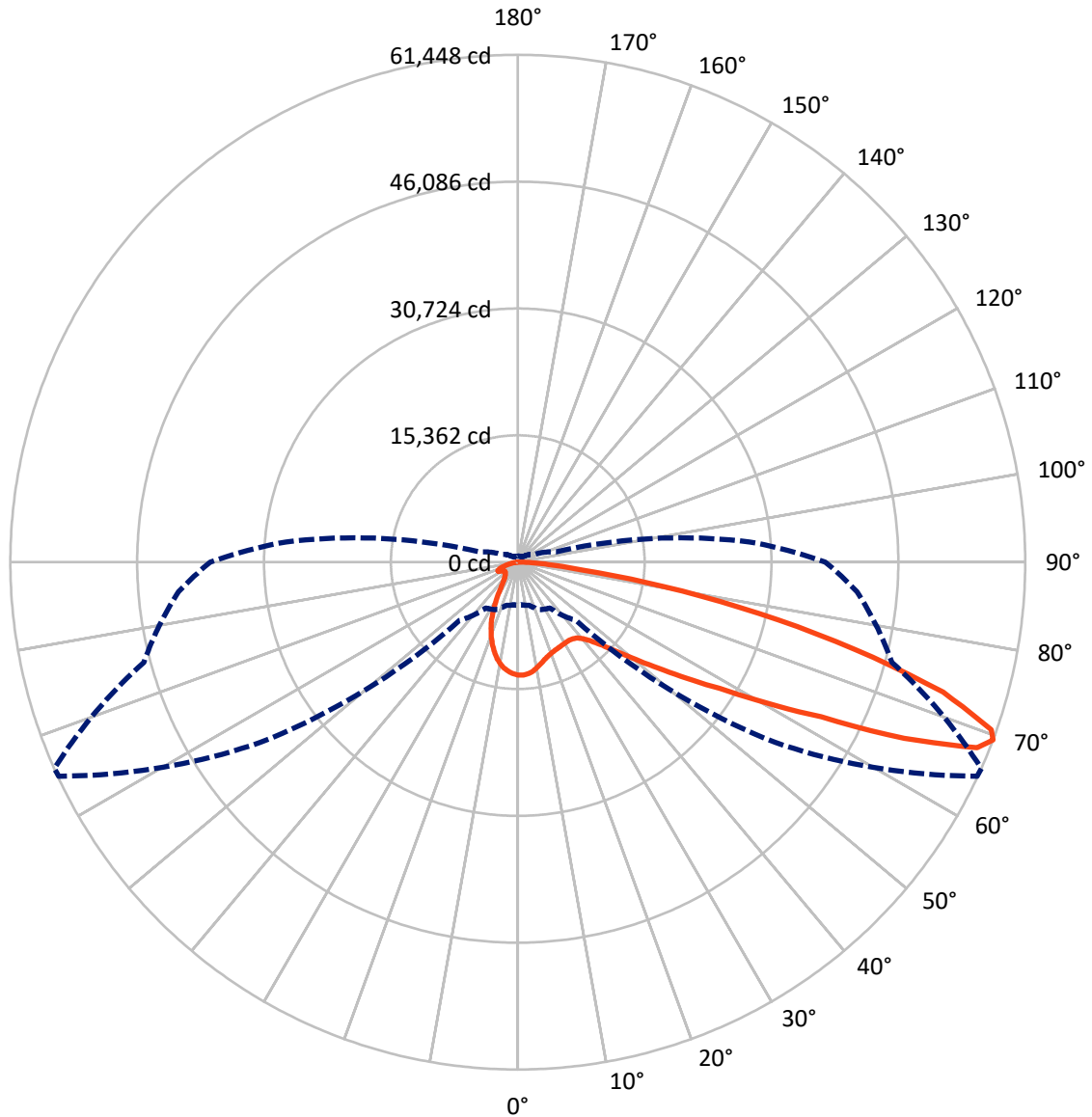
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P459506
CATALOG NUMBER: GLAN-SA9C-735-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P459506

CATALOG NUMBER: GLAN-SA9C-735-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11145.3	0.0	11145.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	48118.7	0.0	48118.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	59264.0	0.0	59264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1188.5	2.0
10°-20°	2818.9	4.8
20°-30°	3837.6	6.5
30°-40°	5156.9	8.7
40°-50°	7700.1	13.0
50°-60°	12248.2	20.7
60°-70°	15064.7	25.4
70°-80°	9801.8	16.5
80°-90°	1447.4	2.4
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°	59264.0	100.0
0°-180°	59264.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459506

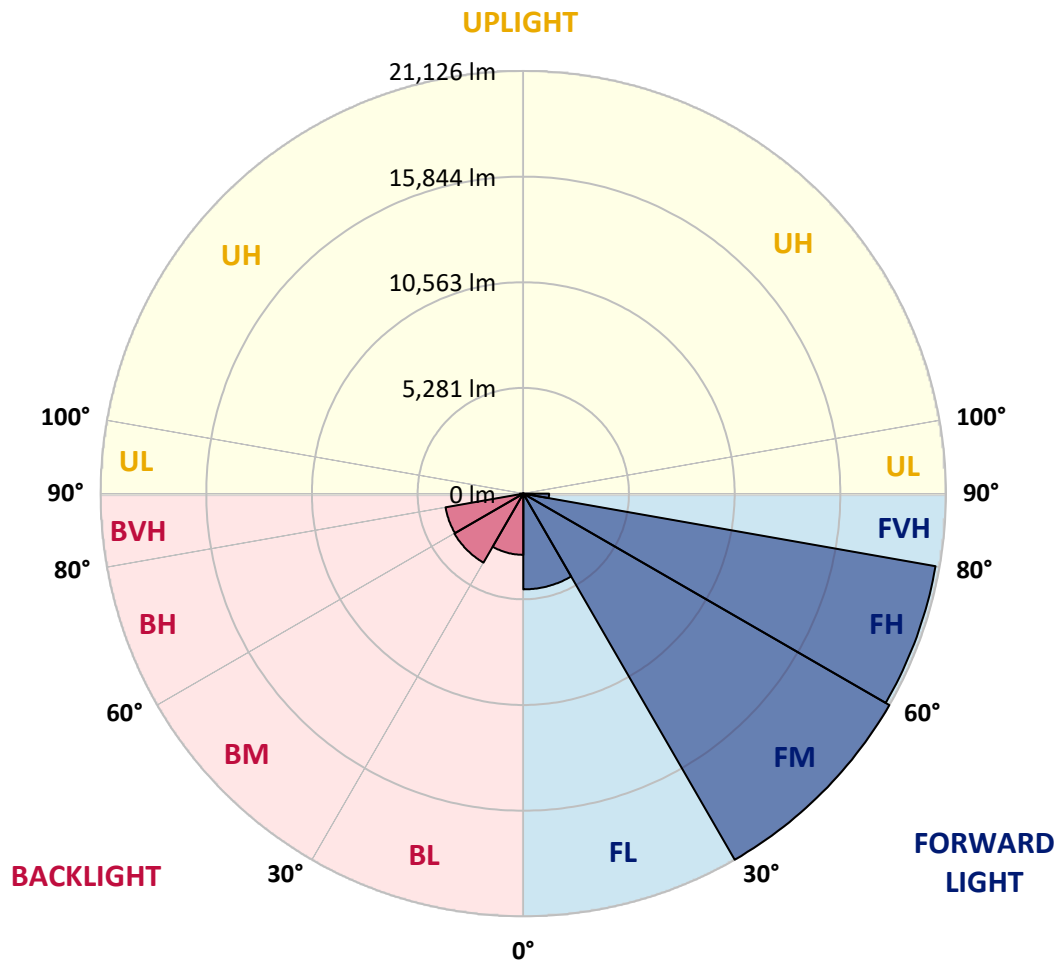
CATALOG NUMBER: GLAN-SA9C-735-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4785.5	8.1			
FM (30°-60°)	21125.8	35.6			
FH (60°-80°)	20920.5	35.3			G5
FVH (80°-90°)	1286.8	2.2			G5
BL (0°-30°)	3059.4	5.2	B4/5000		
BM (30°-60°)	3979.4	6.7	B3/5000		
BH (60°-80°)	3945.9	6.7	B4/5000		G4/5000
BVH (80°-90°)	160.6	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 III Medium





REPORT NUMBER: P459506

CATALOG NUMBER: GLAN-SA9C-735-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	13685.7	13685.7	13685.7	13685.7	13685.7	13685.7	13685.7	13685.7	13685.7	13685.7	13685.7
2.5°	13206.5	13259.1	13318.1	13383.8	13508.5	13577.4	13626.6	13682.4	13689.0	13718.5	13695.6
5°	12231.8	12294.2	12382.8	12507.5	12694.6	12986.7	13288.6	13534.7	13564.3	13702.1	13741.5
7.5°	11417.9	11454.0	11526.2	11726.4	11992.2	12317.1	12756.9	13255.8	13328.0	13656.2	13771.0
10°	10754.9	10791.0	10876.4	11083.1	11345.7	11752.6	12235.1	12891.5	12950.5	13515.0	13777.6
12.5°	10259.4	10292.2	10384.1	10587.5	10889.5	11270.2	11801.9	12497.6	12583.0	13328.0	13715.2
15°	9881.9	9944.3	10019.8	10187.2	10505.5	10873.1	11388.3	12136.6	12205.5	13131.1	13672.6
17.5°	9721.1	9750.7	9803.2	9957.4	10190.4	10551.4	11070.0	11854.4	11936.4	12993.2	13662.7
20°	9727.7	9757.2	9767.1	9852.4	10019.8	10331.6	10843.5	11631.2	11729.7	12871.8	13679.1
22.5°	9950.9	9954.1	9918.0	9888.5	9954.1	10213.4	10682.7	11463.8	11578.7	12819.3	13692.3
25°	10295.5	10354.5	10302.0	10164.2	10042.7	10167.5	10620.4	11371.9	11480.2	12743.8	13675.9
27.5°	10853.4	10863.2	10820.6	10633.5	10318.4	10226.5	10594.1	11303.0	11394.9	12688.0	13593.8
30°	11601.7	11572.1	11532.7	11326.0	10830.4	10453.0	10649.9	11240.7	11335.8	12605.9	13495.4
32.5°	12359.8	12451.7	12415.6	12172.7	11529.5	10892.8	10830.4	11234.1	11312.9	12543.6	13387.0
35°	13163.9	13206.5	13377.2	13252.5	12592.8	11605.0	11168.5	11335.8	11398.2	12546.9	13311.6
37.5°	13794.0	13908.9	14309.3	14417.6	13797.3	12546.9	11716.5	11624.6	11650.9	12707.7	13341.1
40°	14555.4	14752.3	15267.6	15710.7	15303.7	13771.0	12648.6	12159.6	12192.4	13095.0	13534.7
42.5°	15520.3	15658.2	16350.6	16951.2	16885.6	15389.0	13777.6	13035.9	13052.3	13866.2	14076.3
45°	16649.3	16846.2	17624.0	18526.6	18680.8	17220.4	15408.7	14361.8	14351.9	15064.1	15087.1
47.5°	18093.4	18214.8	18986.0	19970.6	20594.2	19521.0	17387.7	16265.3	16160.3	16810.1	16623.0
50°	19422.5	19612.9	20197.1	21273.6	22825.9	22215.5	19990.3	18733.3	18487.2	19094.3	18779.3
52.5°	19980.5	20180.7	20673.0	22008.7	24739.3	25700.9	23295.2	21677.2	21267.0	21733.0	21618.2
55°	19012.3	19271.6	19731.0	21355.6	25579.5	29721.3	27752.1	25080.6	24782.0	24581.8	24614.6
57.5°	16409.7	16655.9	17276.2	19068.1	24575.2	32638.9	34115.8	29455.4	28815.5	27893.2	28050.8
60°	12491.1	12645.3	12967.0	14952.5	21598.5	33397.1	41342.6	34985.5	34578.6	31191.6	31303.2
62.5°	8871.1	9045.0	9268.2	10259.4	15812.4	31260.5	47000.7	42707.9	41254.0	34608.1	34499.8
65°	7203.9	7085.7	7354.8	7817.6	9278.1	24227.3	48274.1	53426.8	51424.8	39107.6	37604.5
67.5°	5923.9	5799.2	6065.0	6888.8	7056.2	14063.1	43685.9	60384.5	59984.1	44001.0	40758.5
69°	5244.5	5178.9	5411.9	6350.6	6773.9	9987.0	38057.4	61352.7	61447.8	46885.8	41244.2
70°	4726.0	4752.3	4978.7	6078.2	6645.9	8234.4	32527.3	60016.9	60824.3	48326.6	40719.1
72.5°	3478.9	3534.7	3849.7	5034.5	6524.5	6987.3	19356.9	52422.5	53850.1	48411.9	37250.1
75°	2431.9	2405.7	2684.6	3790.6	6163.5	6924.9	11368.7	40541.8	42159.8	41844.8	31299.9
77.5°	1591.7	1634.4	1857.6	2678.1	5185.5	6872.4	7410.6	28763.0	29813.2	27985.1	18513.4
80°	1122.4	1119.1	1243.9	1828.0	3846.4	6603.3	6068.3	18129.5	17863.6	10997.8	5490.7
82.5°	643.3	689.2	833.6	1286.5	2573.0	5812.3	5582.6	8670.9	7916.0	3134.3	1854.3
85°	357.7	374.1	495.6	777.8	1503.1	4378.1	4873.7	3944.9	3721.7	1309.5	797.5
87.5°	114.9	124.7	206.8	393.8	682.6	2067.6	2760.1	1821.5	1680.4	472.6	321.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459506

CATALOG NUMBER: GLAN-SA9C-735-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13685.7	13685.7	13685.7	13685.7	13685.7	13685.7	13685.7	13685.7	13685.7	13685.7	13685.7
2.5°	13705.4	13744.8	13639.8	13538.0	13446.1	13318.1	13203.3	13108.1	13042.4	13032.6	12999.8
5°	13751.3	13754.6	13554.4	13285.3	13022.8	12733.9	12435.3	12222.0	12021.8	11910.2	11854.4
7.5°	13784.2	13754.6	13393.6	12957.1	12451.7	11926.6	11401.5	10981.4	10656.5	10528.5	10577.7
10°	13771.0	13679.1	13150.7	12451.7	11716.5	10932.2	10177.3	9586.6	9045.0	8766.1	8772.6
12.5°	13698.8	13547.9	12789.7	11883.9	10804.2	9753.9	8598.7	7801.2	7174.3	6803.5	6688.6
15°	13636.5	13373.9	12366.4	11112.7	9770.3	8270.5	6862.5	5878.0	5352.8	5060.8	5057.5
17.5°	13570.8	13206.5	11903.6	10295.5	8582.3	6652.5	5175.6	4424.1	4177.9	4207.5	4158.2
20°	13501.9	13009.6	11421.2	9386.4	7134.9	4962.3	3876.0	3570.8	3639.7	3774.2	3793.9
22.5°	13423.1	12799.6	10902.6	8385.4	5612.1	3734.9	3144.1	3098.2	3275.4	3485.4	3515.0
25°	13301.7	12537.0	10249.5	7338.4	4328.9	3009.5	2753.6	2786.4	2960.3	3137.5	3157.2
27.5°	13131.1	12212.1	9589.8	6032.2	3252.4	2582.9	2517.3	2559.9	2645.2	2753.6	2779.8
30°	12901.3	11844.5	8831.7	4903.2	2605.9	2369.6	2343.3	2366.3	2415.5	2461.5	2474.6
32.5°	12671.6	11490.1	8067.0	3754.5	2323.6	2228.4	2202.2	2202.2	2202.2	2208.7	2212.0
35°	12458.3	11155.3	7246.5	2924.2	2175.9	2116.9	2080.8	2041.4	2034.8	2011.8	2011.8
37.5°	12340.1	10850.1	6373.5	2448.3	2067.6	2025.0	1975.7	1910.1	1874.0	1877.3	1870.7
40°	12363.1	10649.9	5579.3	2179.2	1979.0	1933.1	1857.6	1782.1	1759.1	1759.1	1752.6
42.5°	12622.4	10584.3	4817.9	2038.1	1893.7	1841.2	1746.0	1677.1	1663.9	1660.7	1667.2
45°	13219.7	10745.1	4135.2	1946.2	1821.5	1742.7	1647.5	1585.2	1572.1	1572.1	1568.8
47.5°	14384.8	11266.9	3646.2	1887.1	1769.0	1667.2	1568.8	1506.4	1483.4	1476.9	1476.9
50°	16196.4	12399.2	3281.9	1834.6	1703.3	1598.3	1496.6	1424.4	1388.3	1385.0	1381.7
52.5°	18713.6	14164.9	3140.8	1795.2	1631.1	1526.1	1414.5	1345.6	1299.6	1289.8	1283.2
55°	21657.5	16629.6	3334.5	1765.7	1555.6	1444.1	1329.2	1257.0	1214.3	1194.6	1191.3
57.5°	25067.5	19589.9	4069.6	1726.3	1486.7	1355.4	1243.9	1171.7	1125.7	1102.7	1096.2
60°	28129.5	22632.3	5352.8	1703.3	1427.6	1260.3	1145.4	1079.8	1037.1	1014.1	1010.8
62.5°	31493.5	25533.5	6885.5	1765.7	1401.4	1168.4	1053.5	994.4	958.3	935.4	935.4
65°	35087.3	28438.0	7899.6	1975.7	1440.8	1096.2	955.0	905.8	873.0	856.6	853.3
67.5°	37509.3	29442.3	6508.1	2192.3	1539.2	1017.4	859.9	820.5	800.8	784.4	784.4
69°	37246.8	28172.2	4801.5	2248.1	1568.8	978.0	807.4	777.8	751.6	745.0	738.4
70°	36416.4	26724.9	4023.7	2212.0	1545.8	941.9	774.5	738.4	715.5	708.9	705.6
72.5°	32435.4	23177.1	2996.4	1923.2	1316.1	817.2	685.9	653.1	633.4	623.6	623.6
75°	26948.0	18943.4	2340.0	1529.4	1030.5	689.2	587.5	561.2	544.8	538.2	535.0
77.5°	15103.5	10577.7	1680.4	1197.9	781.1	557.9	492.3	469.3	452.9	446.3	446.3
80°	4207.5	3022.7	987.9	790.9	531.7	423.4	390.6	374.1	351.2	334.8	344.6
82.5°	1585.2	1309.5	564.5	475.9	338.0	282.2	272.4	259.3	249.4	226.5	226.5
85°	771.3	636.7	361.0	252.7	187.1	147.7	141.1	134.6	128.0	111.6	114.9
87.5°	265.8	282.2	157.5	91.9	55.8	36.1	29.5	16.4	16.4	16.4	16.4
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)