

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: P457857

Luminaire Tested: **GLAN-SA9B-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA 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: 42228 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

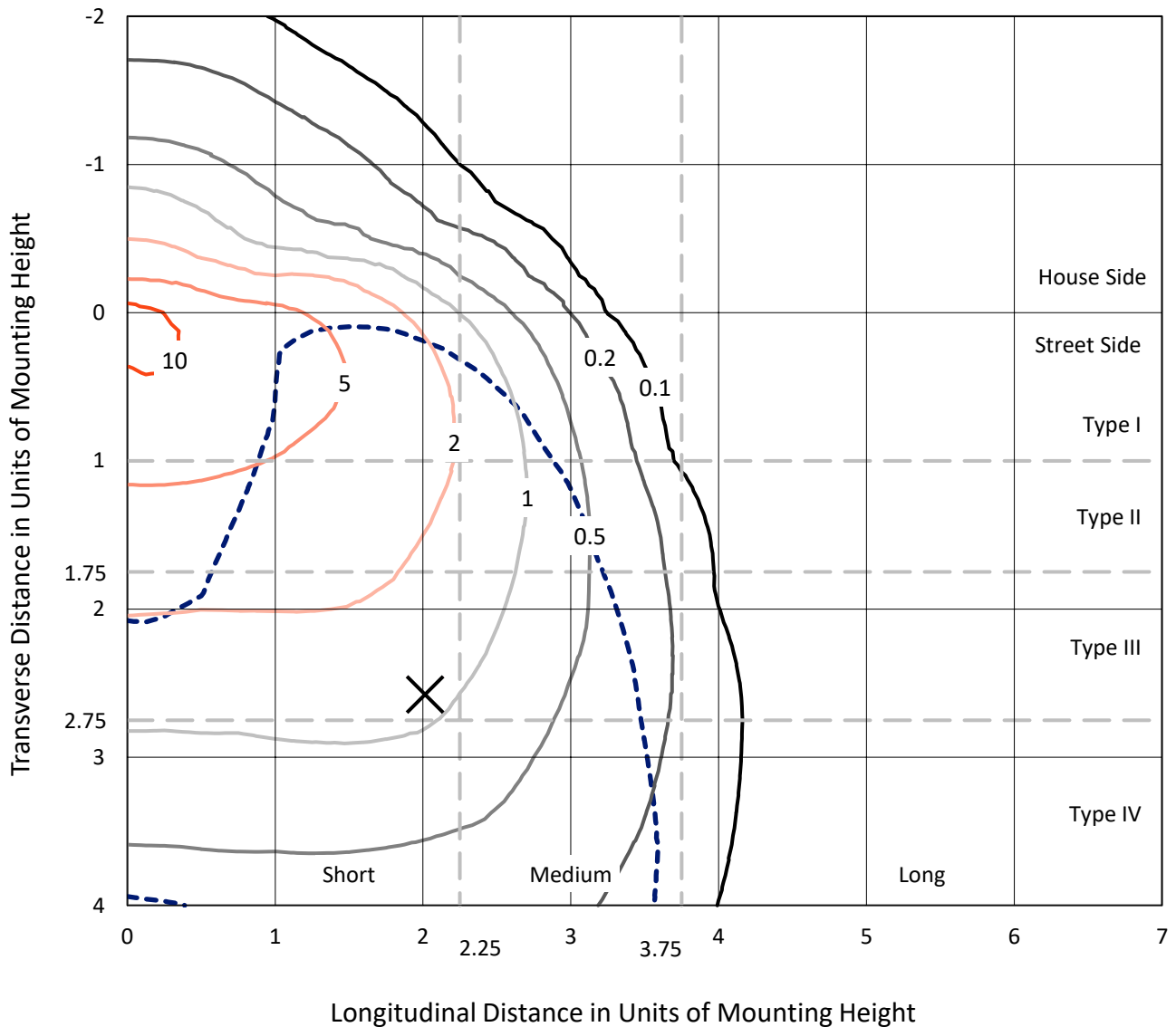
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457857
 CATALOG NUMBER: GLAN-SA9B-727-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

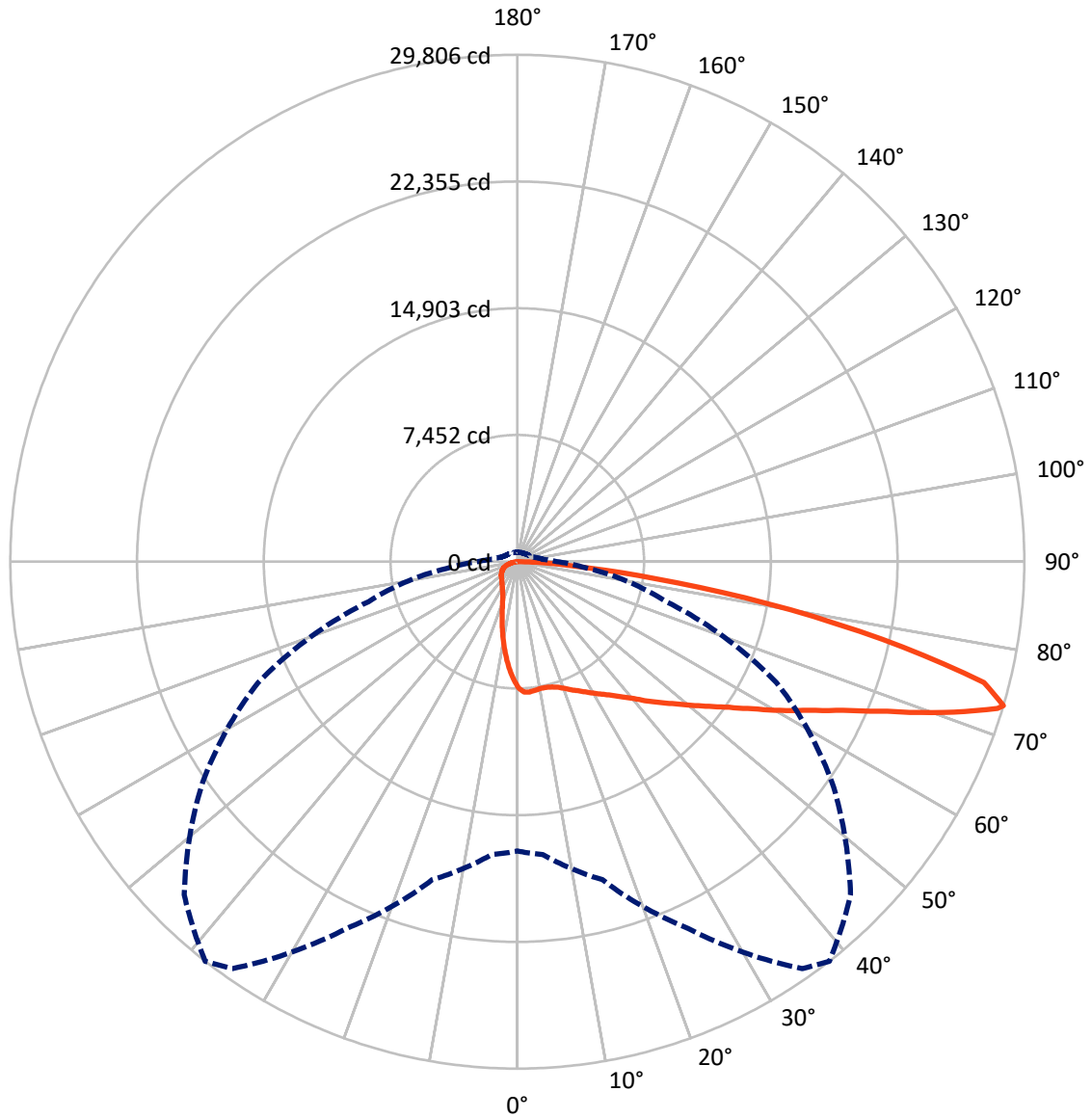
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P457857
CATALOG NUMBER: GLAN-SA9B-727-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5676.7	0.0	5676.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	36551.3	0.0	36551.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	42228.0	0.0	42228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.6	1.5
10°-20°	1660.6	3.9
20°-30°	2585.9	6.1
30°-40°	3792.9	9.0
40°-50°	5626.3	13.3
50°-60°	7971.3	18.9
60°-70°	10111.9	23.9
70°-80°	8417.4	19.9
80°-90°	1414.2	3.3
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°	42228.0	100.0
0°-180°	42228.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457857

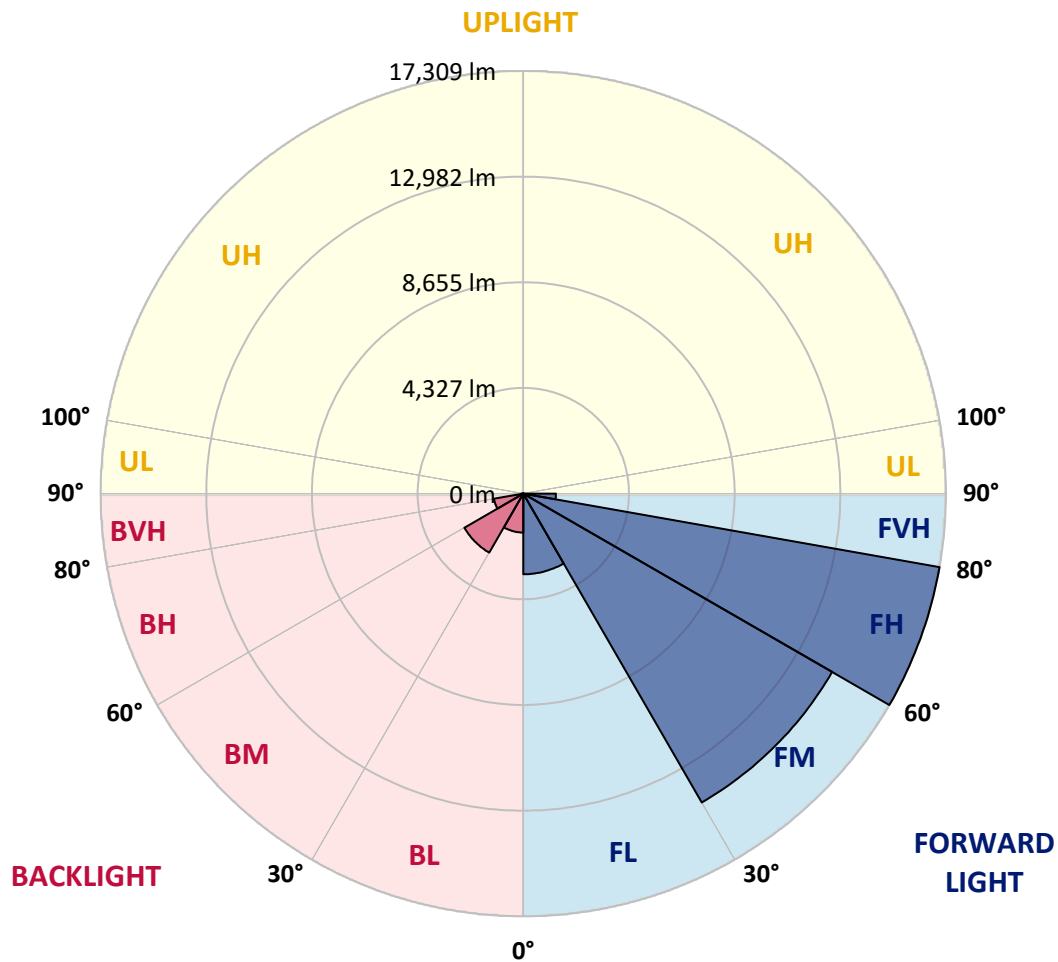
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3301.1	7.8			
FM (30°-60°)	14603.6	34.6			
FH (60°-80°)	17309.1	41.0			G5
FVH (80°-90°)	1337.5	3.2			G5
BL (0°-30°)	1592.9	3.8	B3/2500		
BM (30°-60°)	2786.9	6.6	B3/5000		
BH (60°-80°)	1220.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	76.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P457857
 CATALOG NUMBER: GLAN-SA9B-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7418.7	7418.7	7418.7	7418.7	7418.7	7418.7	7418.7	7418.7	7418.7	7418.7	7418.7
2.5°	7716.8	7755.0	7735.9	7709.7	7693.0	7676.3	7652.4	7583.3	7528.4	7468.8	7375.8
5°	7774.1	7797.9	7781.2	7747.8	7709.7	7693.0	7647.7	7557.1	7468.8	7368.7	7230.4
7.5°	7740.7	7750.2	7731.1	7690.6	7657.2	7626.2	7573.7	7473.6	7366.3	7244.7	7063.4
10°	7621.4	7657.2	7657.2	7623.8	7590.4	7573.7	7521.3	7425.9	7328.1	7189.8	6975.2
12.5°	7523.7	7561.8	7592.8	7583.3	7580.9	7580.9	7540.4	7468.8	7354.4	7223.2	6968.0
15°	7456.9	7502.2	7569.0	7607.1	7631.0	7638.1	7621.4	7559.4	7442.6	7290.0	6996.7
17.5°	7442.6	7497.4	7619.1	7702.5	7764.5	7762.1	7757.4	7671.5	7542.7	7385.4	7032.4
20°	7507.0	7578.5	7747.8	7879.0	7969.6	7952.9	7926.7	7814.6	7664.4	7487.9	7065.8
22.5°	7700.1	7774.1	7960.1	8103.1	8191.4	8191.4	8112.7	7964.8	7805.1	7607.1	7111.1
25°	7976.8	8057.8	8255.8	8401.2	8441.8	8410.8	8332.1	8153.2	7969.6	7778.8	7206.5
27.5°	8315.4	8413.2	8596.8	8718.4	8706.5	8682.6	8601.5	8372.6	8189.0	8014.9	7368.7
30°	8737.5	8809.0	8999.8	9028.4	8985.5	8980.7	8866.2	8637.3	8465.6	8332.1	7600.0
32.5°	9135.7	9200.1	9352.7	9364.6	9288.3	9297.9	9190.6	8980.7	8882.9	8835.2	7988.7
35°	9557.8	9591.2	9722.3	9708.0	9658.0	9650.8	9607.9	9407.6	9438.6	9524.4	8539.5
37.5°	9910.7	9977.5	10051.4	10063.4	10061.0	10084.8	10113.4	10018.0	10196.9	10466.4	9262.1
40°	10235.1	10292.3	10402.0	10440.1	10533.1	10580.8	10678.6	10681.0	11093.5	11537.1	10151.6
42.5°	10454.4	10552.2	10757.3	10826.5	11053.0	11196.1	11341.5	11496.5	12095.1	12665.0	11200.8
45°	10645.2	10774.0	11115.0	11329.6	11637.2	11811.3	12119.0	12443.3	13304.1	14050.5	12266.8
47.5°	10933.8	11048.2	11439.3	11818.5	12283.5	12483.8	12944.1	13428.1	14553.7	15371.7	13287.4
50°	11334.4	11403.5	11801.8	12419.4	13013.2	13270.8	13878.8	14577.6	15889.1	16676.1	14184.1
52.5°	11847.1	11875.7	12192.9	13015.6	13797.8	14117.3	14923.3	15738.9	17057.6	17808.8	14894.7
55°	12452.8	12405.1	12653.1	13647.5	14694.4	15111.7	15977.4	16914.5	18371.6	18724.5	15412.2
57.5°	13051.4	12977.4	13175.4	14415.4	15800.9	16304.1	17312.8	18126.0	19544.8	19580.6	15774.7
60°	13685.7	13630.8	13866.9	15316.8	17157.8	17754.0	18686.4	19382.7	20680.0	20176.8	15831.9
62.5°	14336.7	14248.5	14584.7	16330.3	18686.4	19227.7	20131.5	20718.1	21793.6	20398.6	15281.0
65°	14968.6	14928.1	15448.0	17534.6	20427.2	21042.4	21920.0	22318.2	22685.5	20064.7	13914.6
67.5°	15641.1	15722.2	16552.1	19141.8	22697.4	23470.0	24416.8	24042.4	22940.6	18483.7	11718.3
70°	16666.5	16719.0	18002.0	21247.5	25623.4	26555.8	27013.7	24655.2	21710.1	15481.4	8809.0
72.5°	17107.7	17339.0	19296.8	23458.1	28947.6	29517.6	27886.5	23288.8	18085.4	10516.4	4628.7
73°	17009.9	17286.6	19356.5	23794.4	29207.6	29806.1	27700.5	22585.3	16812.0	9057.0	3968.1
75°	15791.4	16132.4	18581.4	23513.0	28702.0	28344.3	24710.1	19249.1	11360.6	4118.3	1807.6
77.5°	12460.0	12557.7	14723.0	18986.8	22602.0	21939.1	18493.2	12030.7	4640.6	1531.0	1025.4
80°	6250.3	6610.3	8298.7	10876.5	15114.1	14897.1	11673.0	5689.8	1934.0	899.0	679.6
82.5°	3007.1	3262.2	4042.0	5303.5	8351.2	8153.2	5780.5	3109.6	1228.1	524.6	400.6
85°	1936.4	2127.1	2573.1	2530.1	3433.9	3278.9	2596.9	2353.7	727.3	274.2	279.0
87.5°	1278.2	1399.8	1678.8	1342.6	1249.6	1130.3	1147.0	1325.9	143.1	104.9	38.2
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: P457857

CATALOG NUMBER: GLAN-SA9B-727-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7418.7	7418.7	7418.7	7418.7	7418.7	7418.7	7418.7	7418.7	7418.7	7418.7	7418.7
2.5°	7337.7	7306.7	7204.1	7104.0	7008.6	6918.0	6858.3	6779.6	6727.2	6741.5	6763.0
5°	7154.0	7084.9	6903.7	6727.2	6560.3	6362.3	6202.6	6073.8	5976.0	5940.2	5933.1
7.5°	6960.9	6844.0	6584.1	6281.3	5997.5	5751.9	5468.1	5327.4	5162.8	5105.6	5086.5
10°	6844.0	6686.6	6321.8	5899.7	5472.8	5065.1	4757.4	4507.0	4280.5	4237.6	4216.1
12.5°	6810.7	6603.2	6111.9	5568.2	5000.7	4499.9	4044.4	3715.3	3495.9	3445.9	3371.9
15°	6791.6	6534.0	5916.4	5234.4	4514.2	3903.7	3424.4	3040.5	2840.2	2706.6	2709.0
17.5°	6774.9	6455.3	5697.0	4869.5	4094.5	3391.0	2861.6	2515.8	2332.2	2260.7	2253.5
20°	6751.0	6362.3	5444.2	4485.6	3615.2	2923.6	2444.3	2186.8	2062.7	2003.1	2000.7
22.5°	6741.5	6271.7	5196.2	4094.5	3190.7	2563.5	2167.7	1986.4	1907.7	1867.2	1867.2
25°	6765.3	6207.3	4936.3	3722.5	2813.9	2255.9	1976.9	1852.9	1807.6	1786.1	1779.0
27.5°	6839.3	6178.7	4678.7	3350.5	2468.1	2046.1	1848.1	1762.3	1728.9	1712.2	1714.6
30°	6980.0	6176.3	4426.0	2983.2	2210.6	1886.3	1745.6	1686.0	1659.7	1650.2	1647.8
32.5°	7206.5	6228.8	4178.0	2680.4	1993.6	1752.7	1650.2	1607.3	1595.4	1588.2	1585.8
35°	7590.4	6376.6	3932.3	2403.8	1826.7	1633.5	1559.6	1538.1	1521.4	1528.6	1531.0
37.5°	8107.9	6631.8	3698.6	2186.8	1700.3	1545.3	1483.3	1464.2	1454.7	1461.8	1469.0
40°	8801.9	6999.0	3503.1	2012.7	1609.7	1471.3	1416.5	1399.8	1390.3	1402.2	1404.6
42.5°	9567.3	7423.5	3340.9	1876.7	1535.7	1409.3	1356.9	1337.8	1330.7	1337.8	1340.2
45°	10354.3	7917.1	3257.5	1779.0	1473.7	1364.0	1309.2	1287.7	1271.0	1266.3	1273.4
47.5°	11129.3	8346.4	3255.1	1719.4	1423.7	1323.5	1263.9	1240.0	1218.6	1206.6	1204.3
50°	11761.2	8687.4	3312.3	1693.1	1380.7	1278.2	1218.6	1194.7	1166.1	1142.3	1147.0
52.5°	12238.2	8909.2	3338.6	1681.2	1356.9	1230.5	1170.9	1149.4	1116.0	1085.0	1085.0
55°	12545.8	8961.6	3274.2	1669.3	1337.8	1180.4	1116.0	1097.0	1063.6	1032.6	1032.6
57.5°	12650.7	8799.5	3042.9	1640.7	1318.7	1137.5	1061.2	1044.5	1018.3	987.3	982.5
60°	12407.5	8251.0	2637.5	1554.8	1280.6	1092.2	1001.6	994.4	984.9	958.6	956.3
62.5°	11470.3	7087.3	2196.3	1442.7	1216.2	1044.5	946.7	958.6	965.8	951.5	949.1
65°	9910.7	5754.2	1876.7	1287.7	1130.3	977.7	887.1	918.1	937.2	937.2	932.4
67.5°	8038.8	4418.8	1581.0	1154.2	1023.0	887.1	820.3	844.2	858.5	853.7	865.6
70°	5713.7	2992.8	1287.7	1001.6	887.1	784.6	734.5	734.5	724.9	720.2	720.2
72.5°	2771.0	1709.8	1044.5	837.0	755.9	670.1	629.6	612.9	593.8	591.4	579.5
73°	2315.5	1533.4	996.8	806.0	724.9	653.4	608.1	581.9	569.9	560.4	558.0
75°	1409.3	1163.7	832.3	679.6	617.6	562.8	522.2	498.4	486.5	479.3	476.9
77.5°	927.6	868.0	646.2	519.9	472.2	438.8	422.1	398.2	391.1	381.5	381.5
80°	691.6	662.9	462.6	367.2	338.6	310.0	305.2	300.5	281.4	269.5	264.7
82.5°	445.9	472.2	314.8	245.6	214.6	190.8	193.2	200.3	181.2	164.5	159.8
85°	317.2	341.0	190.8	112.1	90.6	78.7	88.2	78.7	81.1	64.4	52.5
87.5°	52.5	90.6	33.4	14.3	7.2	4.8	0.0	0.0	0.0	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)