

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: P458317

Luminaire Tested: **GLAN-SA9D-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458317
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-SA9D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA 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: 58544 lumens
Efficiency: N/A
Efficacy: 106.1 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

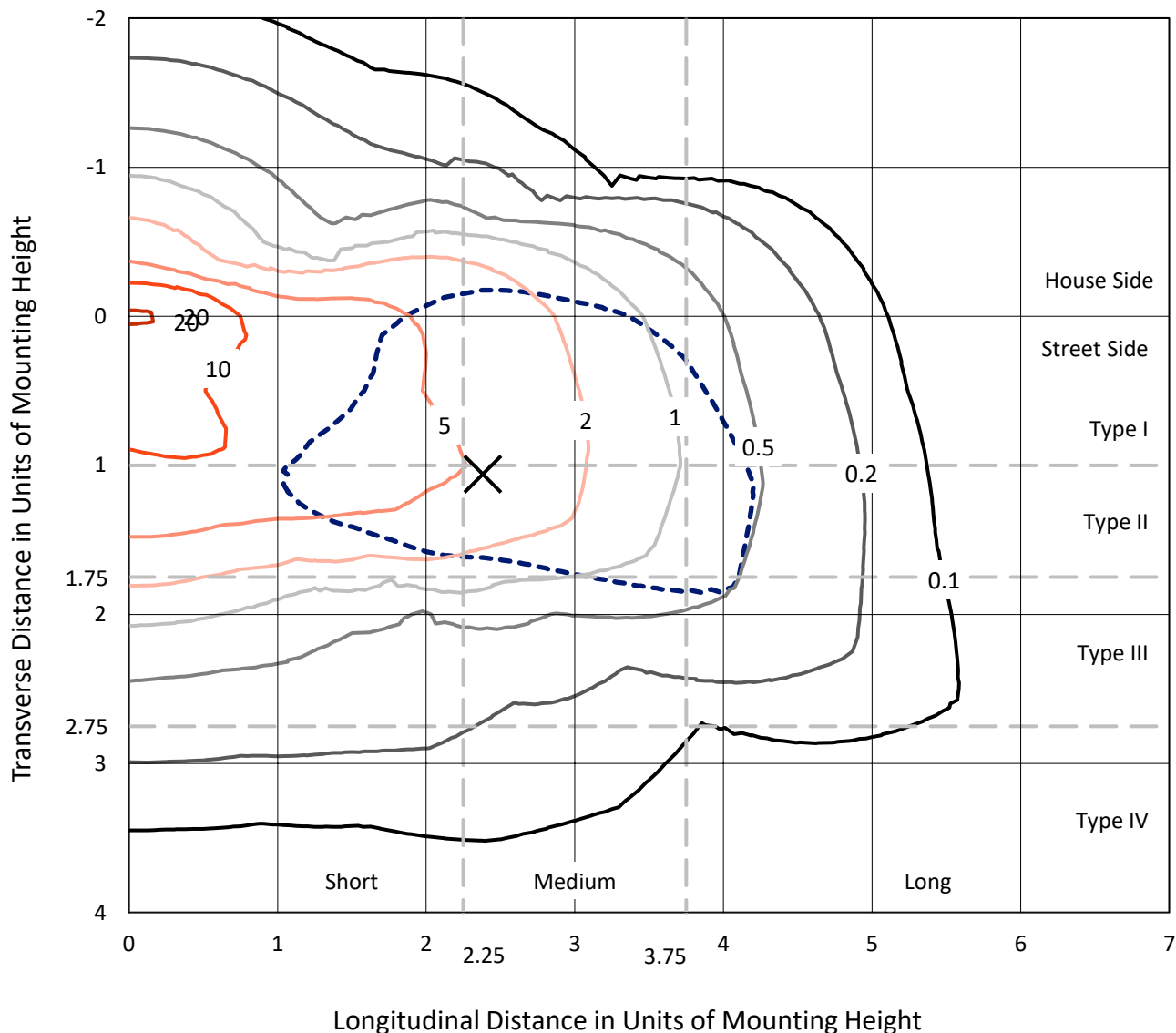
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

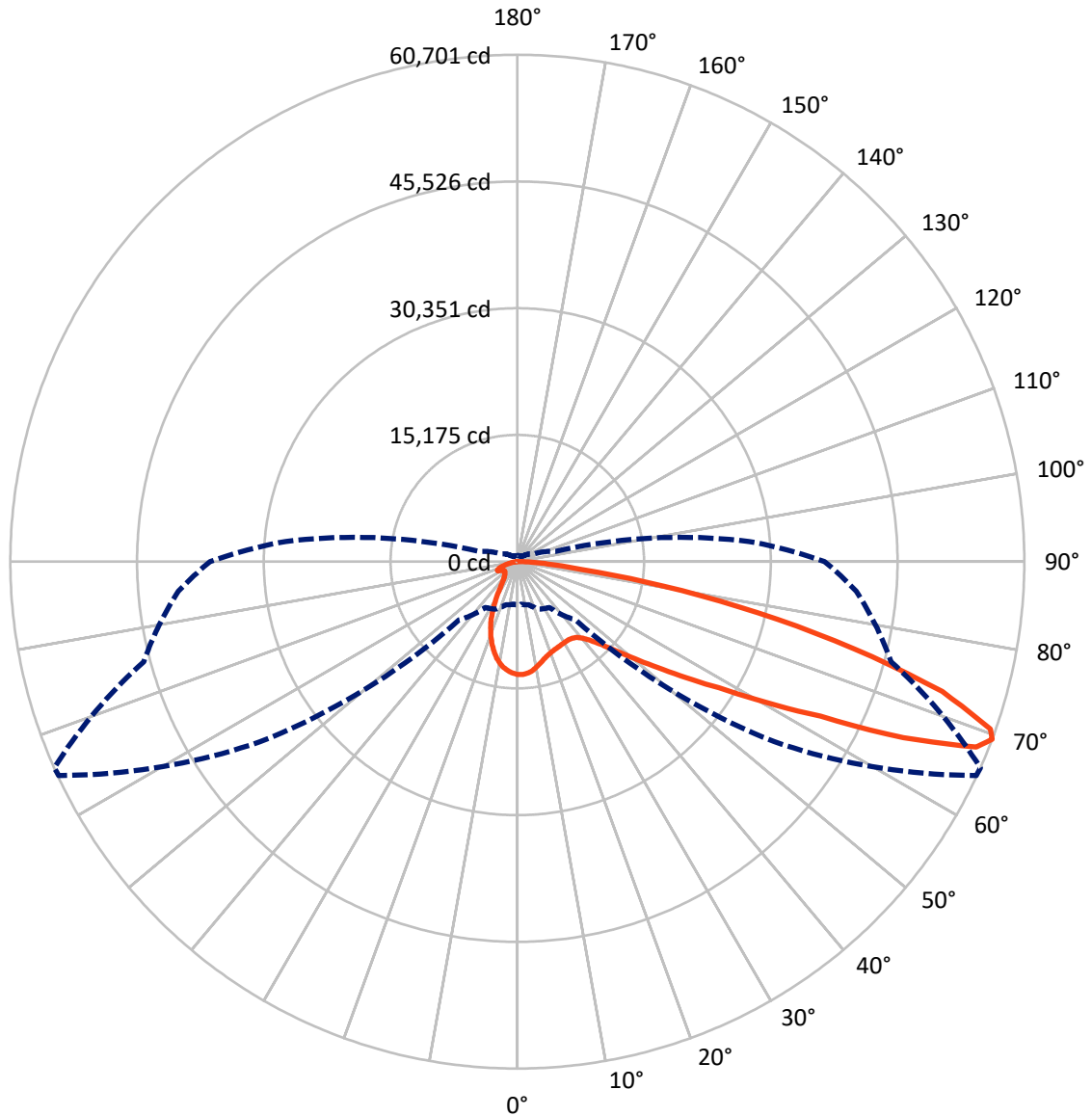
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11009.9	0.0	11009.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	47534.1	0.0	47534.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	58544.0	0.0	58544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1174.0	2.0
10°-20°	2784.7	4.8
20°-30°	3791.0	6.5
30°-40°	5094.2	8.7
40°-50°	7606.5	13.0
50°-60°	12099.4	20.7
60°-70°	14881.6	25.4
70°-80°	9682.7	16.5
80°-90°	1429.8	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°	58544.0	100.0
0°-180°	58544.0	100.0

Coefficient of Utilization



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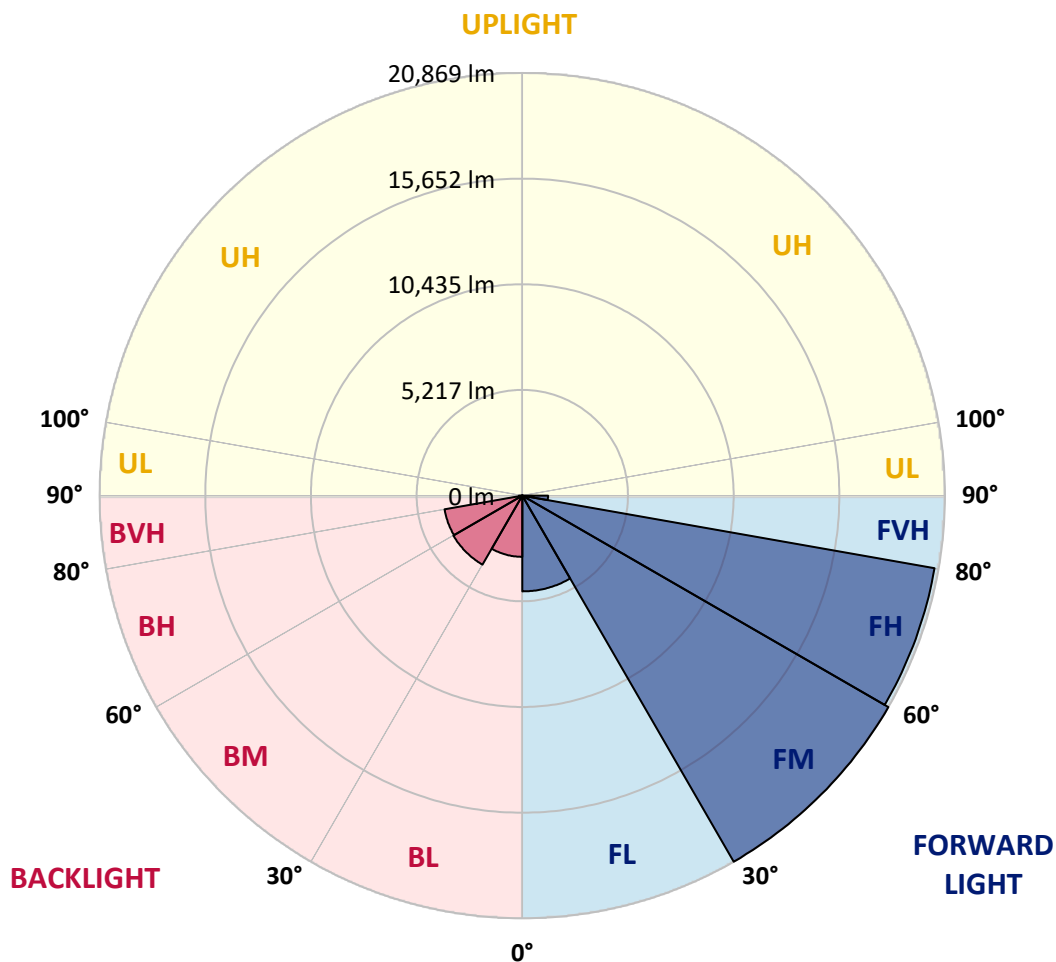
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4727.4	8.1			
FM	(30°-60°)	20869.2	35.6			
FH	(60°-80°)	20666.3	35.3			G5
FVH	(80°-90°)	1271.2	2.2			G5
BL	(0°-30°)	3022.3	5.2	B4/5000		
BM	(30°-60°)	3931.0	6.7	B3/5000		
BH	(60°-80°)	3898.0	6.7	B4/5000		G4/5000
BVH	(80°-90°)	158.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	13519.4	13519.4	13519.4	13519.4	13519.4	13519.4	13519.4	13519.4	13519.4	13519.4	13519.4
2.5°	13046.1	13098.0	13156.3	13221.2	13344.4	13412.4	13461.1	13516.2	13522.7	13551.9	13529.2
5°	12083.2	12144.8	12232.3	12355.5	12540.3	12828.9	13127.1	13370.3	13399.5	13535.6	13574.6
7.5°	11279.2	11314.8	11386.2	11583.9	11846.5	12167.5	12601.9	13094.7	13166.1	13490.3	13603.7
10°	10624.3	10659.9	10744.2	10948.5	11207.8	11609.9	12086.4	12734.9	12793.2	13350.8	13610.2
12.5°	10134.7	10167.1	10257.9	10458.9	10757.2	11133.3	11658.5	12345.8	12430.1	13166.1	13548.6
15°	9761.9	9823.5	9898.0	10063.4	10377.9	10741.0	11250.0	11989.2	12057.3	12971.5	13506.5
17.5°	9603.0	9632.2	9684.1	9836.4	10066.6	10423.3	10935.5	11710.4	11791.4	12835.4	13496.7
20°	9609.5	9638.7	9648.4	9732.7	9898.0	10206.0	10711.8	11489.9	11587.2	12715.4	13513.0
22.5°	9830.0	9833.2	9797.5	9768.4	9833.2	10089.3	10552.9	11324.6	11438.0	12663.5	13525.9
25°	10170.4	10228.7	10176.9	10040.7	9920.7	10043.9	10491.3	11233.8	11340.8	12589.0	13509.7
27.5°	10721.5	10731.3	10689.1	10504.3	10193.1	10102.3	10465.4	11165.7	11256.5	12533.8	13428.7
30°	11460.7	11431.5	11392.6	11188.4	10698.8	10326.0	10520.5	11104.1	11198.1	12452.8	13331.4
32.5°	12209.6	12300.4	12264.8	12024.8	11389.4	10760.4	10698.8	11097.6	11175.4	12391.2	13224.4
35°	13003.9	13046.1	13214.7	13091.5	12439.8	11464.0	11032.8	11198.1	11259.7	12394.4	13149.8
37.5°	13626.4	13739.9	14135.4	14242.4	13629.7	12394.4	11574.2	11483.4	11509.4	12553.3	13179.0
40°	14378.6	14573.1	15082.1	15519.8	15117.8	13603.7	12494.9	12011.9	12044.3	12935.9	13370.3
42.5°	15331.8	15467.9	16152.0	16745.3	16680.5	15202.1	13610.2	12877.5	12893.7	13697.8	13905.2
45°	16447.0	16641.6	17409.9	18301.5	18453.9	17011.1	15221.5	14187.3	14177.6	14881.1	14903.8
47.5°	17873.5	17993.5	18755.4	19728.0	20344.0	19283.8	17176.5	16067.7	15964.0	16605.9	16421.1
50°	19186.6	19374.6	19951.7	21015.1	22548.6	21945.6	19747.5	18505.7	18262.6	18862.4	18551.1
52.5°	19737.7	19935.5	20421.8	21741.3	24438.7	25388.7	23012.2	21413.9	21008.6	21469.0	21355.5
55°	18781.3	19037.4	19491.3	21096.2	25268.7	29360.2	27415.0	24775.9	24480.9	24283.1	24315.5
57.5°	16210.4	16453.5	17066.3	18836.4	24276.6	32242.4	33701.3	29097.6	28465.4	27554.4	27710.0
60°	12339.3	12491.7	12809.4	14770.9	21336.1	32991.3	40840.4	34560.5	34158.5	30812.6	30922.9
62.5°	8763.3	8935.1	9155.6	10134.7	15620.3	30880.7	46429.7	42189.1	40752.8	34187.6	34080.7
65°	7116.3	6999.6	7265.5	7722.6	9165.3	23933.0	47687.6	52777.7	50800.0	38632.5	37147.7
67.5°	5851.9	5728.7	5991.3	6805.1	6970.5	13892.3	43155.2	59650.9	59255.3	43466.4	40263.3
69°	5180.8	5116.0	5346.2	6273.4	6691.6	9865.6	37595.1	60607.3	60701.3	46316.2	40743.1
70°	4668.6	4694.5	4918.2	6004.3	6565.2	8134.4	32132.2	59287.8	60085.3	47739.5	40224.4
72.5°	3436.6	3491.7	3802.9	4973.3	6445.2	6902.4	19121.7	51785.6	53195.9	47823.8	36797.5
75°	2402.4	2376.4	2652.0	3744.6	6088.6	6840.8	11230.5	40049.3	41647.6	41336.4	30919.6
77.5°	1572.4	1614.6	1835.0	2645.5	5122.5	6788.9	7320.6	28413.5	29451.0	27645.1	18288.5
80°	1108.8	1105.5	1228.7	1805.8	3799.7	6523.0	5994.6	17909.2	17646.6	10864.2	5424.0
82.5°	635.4	680.8	823.5	1270.9	2541.8	5741.7	5514.8	8565.6	7819.9	3096.2	1831.8
85°	353.4	369.6	489.6	768.4	1484.9	4324.9	4814.5	3897.0	3676.5	1293.6	787.8
87.5°	113.5	123.2	204.3	389.0	674.4	2042.5	2726.6	1799.3	1659.9	466.9	317.7
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°	13519.4	13519.4	13519.4	13519.4	13519.4	13519.4	13519.4	13519.4	13519.4	13519.4	13519.4
2.5°	13538.9	13577.8	13474.0	13373.5	13282.8	13156.3	13042.9	12948.8	12884.0	12874.3	12841.8
5°	13584.3	13587.5	13389.8	13123.9	12864.5	12579.2	12284.2	12073.5	11875.7	11765.5	11710.4
7.5°	13616.7	13587.5	13230.9	12799.7	12300.4	11781.7	11263.0	10848.0	10527.0	10400.6	10449.2
10°	13603.7	13513.0	12991.0	12300.4	11574.2	10799.3	10053.7	9470.1	8935.1	8659.6	8666.1
12.5°	13532.4	13383.3	12634.4	11739.5	10672.9	9635.4	8494.2	7706.4	7087.2	6720.8	6607.3
15°	13470.8	13211.4	12216.1	10977.7	9651.6	8170.0	6779.2	5806.5	5287.8	4999.3	4996.0
17.5°	13406.0	13046.1	11759.0	10170.4	8478.0	6571.7	5112.7	4370.3	4127.2	4156.3	4107.7
20°	13337.9	12851.6	11282.4	9272.3	7048.3	4902.0	3828.9	3527.4	3595.5	3728.4	3747.8
22.5°	13260.1	12644.1	10770.2	8283.5	5543.9	3689.5	3105.9	3060.5	3235.6	3443.1	3472.3
25°	13140.1	12384.7	10125.0	7249.3	4276.3	2973.0	2720.1	2752.5	2924.3	3099.4	3118.9
27.5°	12971.5	12063.7	9473.3	5958.9	3212.9	2551.5	2486.7	2528.8	2613.1	2720.1	2746.0
30°	12744.6	11700.6	8724.4	4843.7	2574.2	2340.8	2314.8	2337.5	2386.2	2431.6	2444.5
32.5°	12517.6	11350.5	7969.0	3708.9	2295.4	2201.4	2175.4	2175.4	2175.4	2181.9	2185.2
35°	12306.9	11019.8	7158.5	2888.7	2149.5	2091.1	2055.5	2016.6	2010.1	1987.4	1987.4
37.5°	12190.2	10718.3	6296.1	2418.6	2042.5	2000.4	1951.7	1886.9	1851.2	1854.5	1848.0
40°	12212.9	10520.5	5511.5	2152.7	1955.0	1909.6	1835.0	1760.4	1737.8	1737.8	1731.3
42.5°	12469.0	10455.7	4759.4	2013.3	1870.7	1818.8	1724.8	1656.7	1643.7	1640.5	1647.0
45°	13059.1	10614.5	4085.0	1922.5	1799.3	1721.5	1627.5	1565.9	1553.0	1553.0	1549.7
47.5°	14210.0	11130.0	3601.9	1864.2	1747.5	1647.0	1549.7	1488.1	1465.4	1458.9	1458.9
50°	15999.6	12248.5	3242.1	1812.3	1682.6	1578.9	1478.4	1407.1	1371.4	1368.2	1364.9
52.5°	18486.3	13992.8	3102.7	1773.4	1611.3	1507.6	1397.3	1329.2	1283.9	1274.1	1267.6
55°	21394.4	16427.6	3293.9	1744.2	1536.7	1426.5	1313.0	1241.7	1199.6	1180.1	1176.9
57.5°	24762.9	19351.9	4020.2	1705.3	1468.7	1339.0	1228.7	1157.4	1112.0	1089.3	1082.9
60°	27787.8	22357.3	5287.8	1682.6	1410.3	1245.0	1131.5	1066.6	1024.5	1001.8	998.6
62.5°	31110.9	25223.3	6801.9	1744.2	1384.4	1154.2	1040.7	982.3	946.7	924.0	924.0
65°	34661.0	28092.5	7803.7	1951.7	1423.3	1082.9	943.4	894.8	862.4	846.2	842.9
67.5°	37053.6	29084.6	6429.0	2165.7	1520.5	1005.0	849.4	810.5	791.1	774.9	774.9
69°	36794.3	27829.9	4743.1	2220.8	1549.7	966.1	797.5	768.4	742.4	736.0	729.5
70°	35974.0	26400.2	3974.8	2185.2	1527.0	930.5	765.1	729.5	706.8	700.3	697.0
72.5°	32041.4	22895.5	2960.0	1899.9	1300.1	807.3	677.6	645.2	625.7	616.0	616.0
75°	26620.6	18713.2	2311.6	1510.8	1018.0	680.8	580.3	554.4	538.2	531.7	528.5
77.5°	14920.0	10449.2	1659.9	1183.4	771.6	551.2	486.3	463.6	447.4	440.9	440.9
80°	4156.3	2985.9	975.9	781.3	525.2	418.2	385.8	369.6	346.9	330.7	340.4
82.5°	1565.9	1293.6	557.6	470.1	333.9	278.8	269.1	256.1	246.4	223.7	223.7
85°	761.9	629.0	356.6	249.6	184.8	145.9	139.4	132.9	126.4	110.2	113.5
87.5°	262.6	278.8	155.6	90.8	55.1	35.7	29.2	16.2	16.2	16.2	16.2
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)