

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: P319633

Luminaire Tested: **GAN-SA9A-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37945 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

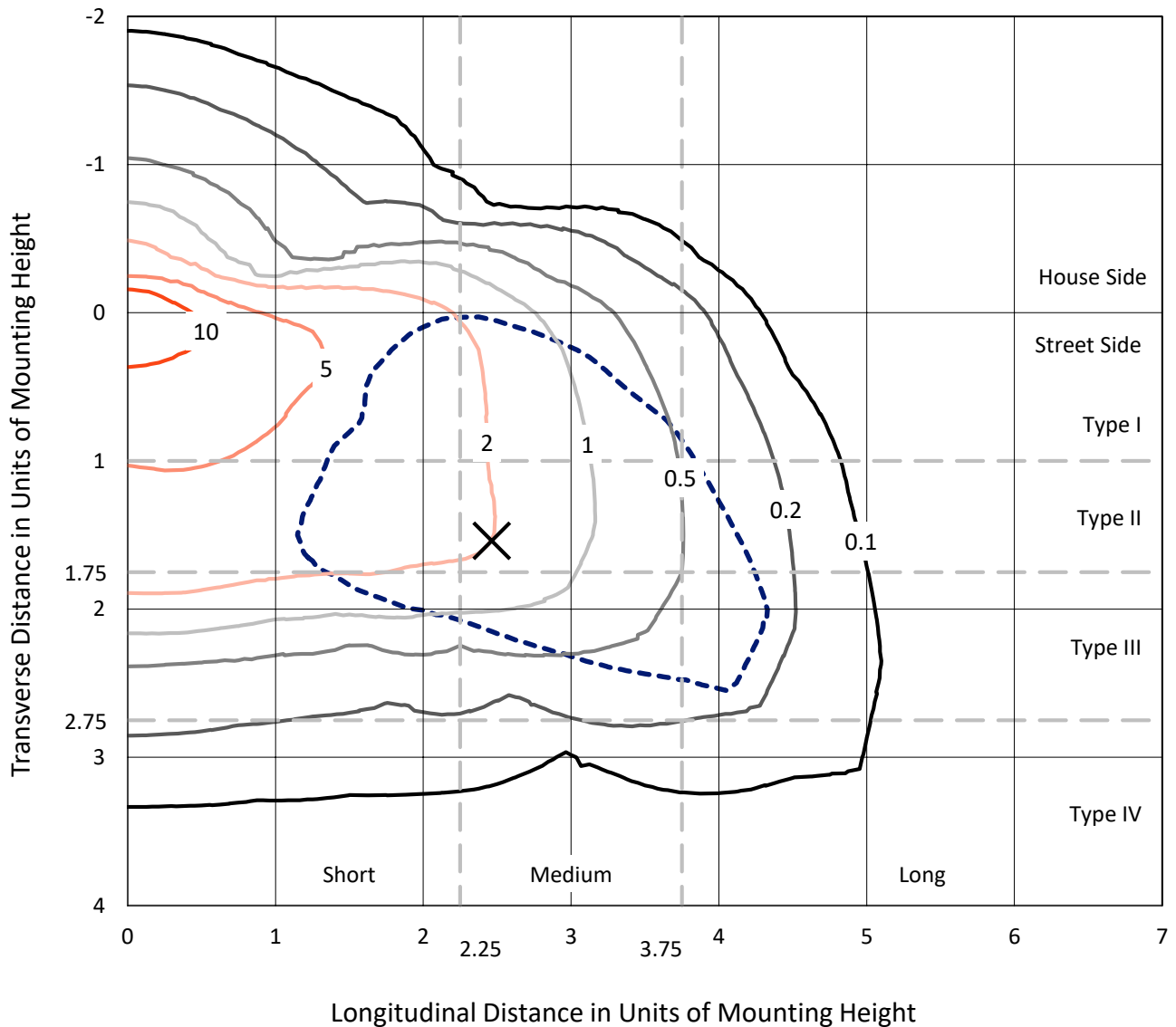
Input Watts (W): 290
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

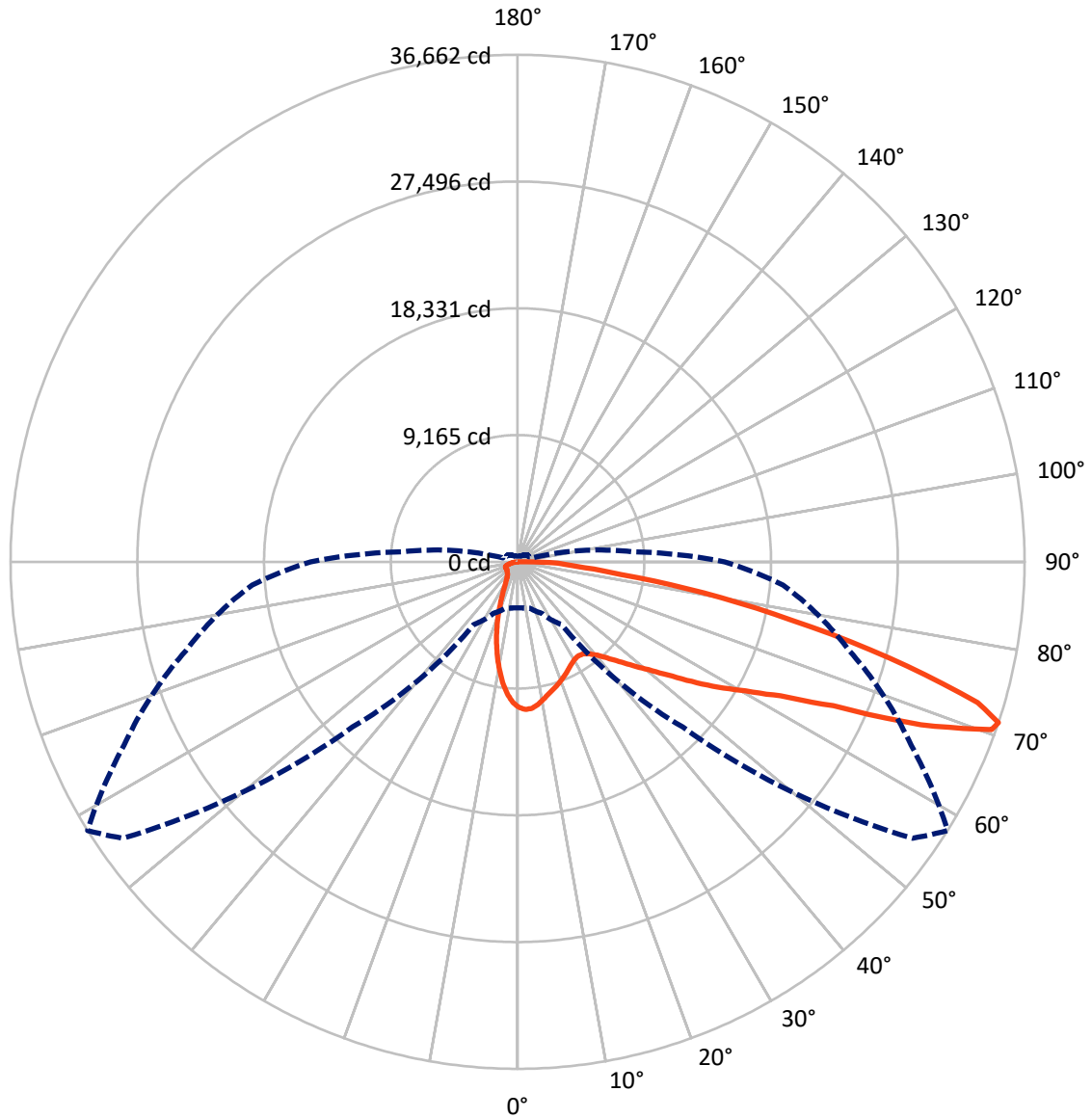
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5673.0	0.0	5673.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	32271.9	0.0	32271.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	37945.0	0.0	37945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	907.0	2.4
10°-20°	2016.8	5.3
20°-30°	2563.1	6.8
30°-40°	3264.9	8.6
40°-50°	4629.8	12.2
50°-60°	7164.8	18.9
60°-70°	9753.9	25.7
70°-80°	6507.0	17.1
80°-90°	1137.6	3.0
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°	37945.0	100.0
0°-180°	37945.0	100.0

Coefficient of Utilization

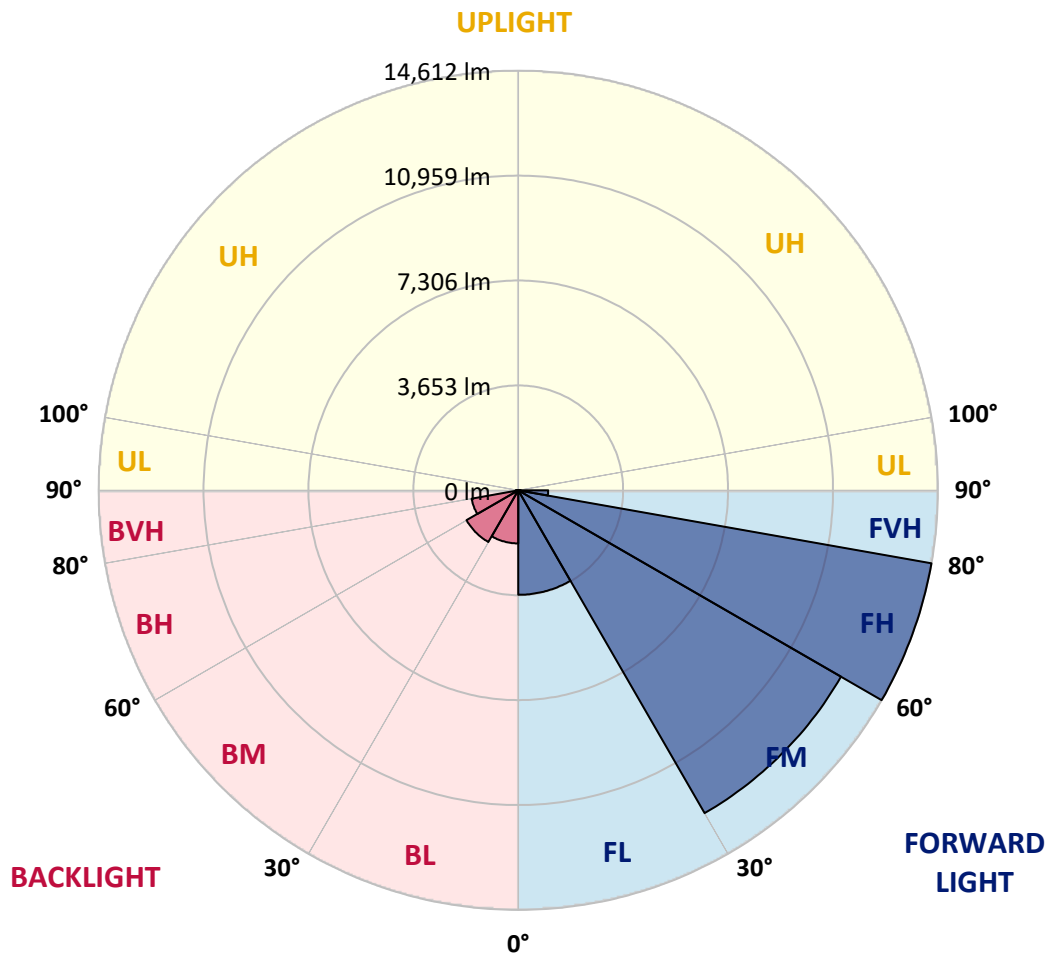


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3637.6	9.6			
FM (30°-60°)	12979.0	34.2			
FH (60°-80°)	14612.2	38.5			G5
FVH (80°-90°)	1043.1	2.7			G5
BL (0°-30°)	1849.2	4.9	B3/2500		
BM (30°-60°)	2080.5	5.5	B2/2500		
BH (60°-80°)	1648.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	94.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3
2.5°	10792.2	10777.7	10782.9	10772.4	10747.3	10722.1	10685.1	10691.7	10640.2	10563.5	10468.4
5°	10588.6	10583.4	10623.0	10645.5	10664.0	10649.4	10638.9	10652.1	10576.7	10471.0	10305.8
7.5°	10161.7	10103.6	10153.8	10229.1	10300.5	10354.7	10426.1	10435.3	10387.7	10276.7	10059.9
10°	9555.0	9499.5	9573.5	9691.2	9833.9	9963.4	10107.5	10134.0	10143.2	10042.8	9779.7
12.5°	8925.9	8883.6	8957.6	9122.8	9359.4	9559.0	9789.0	9828.6	9910.6	9843.2	9520.7
15°	8362.8	8346.9	8436.8	8599.4	8871.7	9177.0	9508.8	9581.5	9720.2	9697.8	9318.4
17.5°	7876.4	7872.4	7941.2	8111.7	8413.0	8799.0	9229.9	9352.8	9559.0	9585.4	9151.9
20°	7514.2	7506.3	7553.9	7679.4	7990.1	8427.6	8928.5	9097.7	9395.1	9487.6	8980.1
22.5°	7319.9	7318.6	7319.9	7379.4	7633.2	8040.3	8635.1	8841.3	9235.2	9409.6	8789.7
25°	7286.9	7282.9	7253.8	7247.2	7391.3	7716.5	8344.3	8571.6	9083.2	9355.4	8608.6
27.5°	7372.8	7378.1	7339.7	7277.6	7306.7	7503.6	8091.8	8335.0	8961.6	9344.9	8483.1
30°	7551.2	7548.6	7515.5	7450.8	7393.9	7424.3	7912.1	8155.3	8879.6	9391.1	8397.2
32.5°	7748.2	7762.7	7756.1	7720.4	7635.8	7514.2	7857.9	8095.8	8855.8	9502.2	8360.1
35°	7984.8	8000.6	8048.2	8076.0	7976.8	7781.2	7974.2	8180.4	8924.5	9711.0	8419.6
37.5°	8209.5	8250.4	8383.9	8501.6	8417.0	8198.9	8283.5	8430.2	9137.3	10040.1	8579.6
40°	8468.5	8504.2	8722.3	8972.1	8958.9	8732.9	8781.8	8879.6	9512.7	10512.0	8869.0
42.5°	8723.6	8795.0	9110.9	9465.1	9566.9	9367.3	9445.3	9496.9	10041.4	11137.2	9373.9
45°	9063.3	9140.0	9578.8	10005.7	10243.7	10131.3	10255.6	10275.4	10706.3	11988.4	10107.5
47.5°	9577.5	9664.7	10176.3	10624.3	10987.8	10999.7	11204.6	11196.7	11536.3	12962.5	11031.4
50°	10378.5	10504.0	10923.0	11342.0	11783.5	12029.4	12303.0	12264.6	12531.6	14000.1	12095.5
52.5°	11428.0	11486.1	11796.7	12106.0	12654.6	13205.7	13598.3	13563.9	13660.4	15066.8	13303.5
55°	12515.8	12559.4	12687.6	12856.8	13594.3	14493.1	15323.2	15269.0	15024.5	16174.4	14497.1
57.5°	13493.9	13582.4	13671.0	13741.0	14540.7	15838.7	17087.7	17091.7	16504.9	17369.3	15730.3
60°	13645.9	13723.9	14309.4	14861.9	16159.9	17633.6	18976.5	18936.9	18036.8	18665.9	17104.9
62.5°	12062.4	12238.2	13216.3	14686.1	17719.6	20916.9	21386.1	21337.2	19868.7	20263.9	18705.6
65°	8644.3	8843.9	10024.2	12232.9	16963.5	24534.6	25734.7	25076.5	22366.9	22229.4	20579.8
67.5°	4987.0	5034.6	5546.1	7319.9	12916.3	24723.6	32368.7	31447.4	26246.2	24459.2	21497.2
70°	3687.7	3686.4	3808.0	4504.6	6989.5	20178.0	35523.7	36349.8	30330.5	25192.8	20200.5
71°	3334.8	3338.8	3474.9	4100.1	5535.5	16889.5	34853.6	36661.7	31406.4	24830.6	19262.0
72.5°	2852.4	2865.6	3054.6	3677.1	4656.6	11647.4	31966.8	34790.1	31916.6	23937.1	17793.6
75°	2163.7	2194.1	2455.8	3099.5	4256.1	5907.0	23461.3	27780.8	28353.1	21121.8	13221.6
77.5°	1543.8	1578.2	1874.3	2606.5	4045.9	4451.7	15711.8	20263.9	20865.3	13536.2	5963.8
80°	975.5	1016.4	1239.8	2073.8	3801.4	4227.0	9873.6	13620.8	11377.7	4331.4	1517.4
82.5°	572.3	604.0	769.3	1354.8	3104.8	4071.0	5809.1	7549.9	4427.9	1308.5	690.0
85°	331.8	346.3	479.8	863.1	2254.9	3842.4	4268.0	4220.4	1921.8	639.7	326.5
87.5°	154.6	171.8	284.2	450.7	1251.7	2785.0	3373.1	2914.5	1194.9	300.0	153.3
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°	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3
2.5°	10422.1	10399.6	10305.8	10222.5	10135.3	10021.6	9896.0	9880.2	9803.5	9818.1	9791.6
5°	10215.9	10159.1	9933.0	9728.2	9486.3	9269.5	9034.2	8925.9	8769.9	8759.3	8719.7
7.5°	9921.2	9815.4	9465.1	9076.5	8687.9	8317.9	7951.7	7711.2	7465.3	7360.9	7351.6
10°	9589.4	9409.6	8894.1	8319.2	7758.7	7218.1	6694.7	6307.5	5958.5	5793.3	5786.7
12.5°	9274.8	9009.1	8302.0	7519.5	6752.9	6052.4	5334.6	4825.8	4388.3	4241.5	4179.4
15°	9007.8	8633.8	7725.7	6725.1	5794.6	4821.8	4004.9	3469.6	3065.2	2925.1	2898.6
17.5°	8748.7	8267.6	7134.9	5922.8	4798.0	3728.7	2910.5	2512.7	2297.2	2240.4	2239.1
20°	8491.0	7890.9	6517.6	5102.0	3834.4	2788.9	2237.7	2059.3	1986.6	1980.0	1969.4
22.5°	8198.9	7491.8	5868.6	4278.5	2992.5	2192.8	1902.0	1830.6	1821.4	1845.2	1845.2
25°	7925.3	7095.2	5210.4	3472.3	2327.6	1829.3	1698.5	1683.9	1709.0	1751.3	1755.3
27.5°	7670.2	6713.2	4568.0	2755.9	1865.0	1611.2	1557.0	1574.2	1619.2	1668.1	1669.4
30°	7460.0	6352.4	3944.1	2171.7	1575.5	1448.7	1439.4	1473.8	1522.7	1561.0	1570.3
32.5°	7297.5	6044.4	3341.4	1746.0	1386.5	1327.0	1335.0	1364.1	1394.5	1415.6	1430.1
35°	7222.1	5780.1	2785.0	1472.4	1266.2	1233.2	1243.8	1259.6	1272.9	1288.7	1300.6
37.5°	7235.3	5575.2	2288.0	1301.9	1185.6	1168.4	1168.4	1168.4	1168.4	1176.4	1177.7
40°	7358.3	5457.6	1883.5	1193.6	1131.4	1112.9	1098.4	1085.2	1074.6	1079.9	1077.2
42.5°	7672.8	5447.0	1587.4	1124.8	1087.8	1057.4	1028.3	1009.8	996.6	1001.9	1004.5
45°	8206.8	5579.2	1387.9	1075.9	1046.8	1000.6	963.6	943.7	934.5	951.7	954.3
47.5°	8898.1	5867.3	1266.2	1040.2	1008.5	947.7	908.1	889.5	892.2	917.3	923.9
50°	9789.0	6335.2	1208.1	1017.8	982.1	902.8	861.8	845.9	853.9	889.5	897.5
52.5°	10767.1	7009.3	1214.7	1011.1	964.9	869.7	826.1	807.6	820.8	853.9	860.5
55°	11895.9	7819.5	1324.4	1020.4	939.8	848.6	797.0	765.3	775.9	806.3	811.6
57.5°	13150.2	8747.4	1545.1	1017.8	908.1	828.7	766.6	719.0	727.0	745.5	750.8
60°	14456.1	9868.3	1887.5	1025.7	893.5	805.0	725.6	666.2	663.5	679.4	682.0
62.5°	16023.7	11164.9	2278.7	1031.0	902.8	774.6	671.5	613.3	605.4	609.3	612.0
65°	17638.9	12103.4	2132.0	1009.8	931.8	749.4	623.9	561.7	547.2	544.6	545.9
67.5°	17689.2	11097.5	1494.9	967.5	943.7	736.2	588.2	518.1	494.3	485.1	483.8
70°	15863.8	9015.7	1164.5	922.6	896.2	715.1	555.1	482.4	446.8	432.2	430.9
71°	14972.9	8299.3	1103.7	900.1	860.5	693.9	540.6	466.6	429.6	413.7	411.1
72.5°	13575.8	7440.2	1029.7	864.4	791.7	639.7	512.8	444.1	405.8	387.3	383.3
75°	9742.7	4865.4	884.3	770.6	655.6	510.2	449.4	399.2	366.1	343.7	341.0
77.5°	3753.8	1936.4	668.8	641.1	502.3	399.2	370.1	345.0	321.2	298.7	297.4
80°	1160.5	865.8	487.7	482.4	363.5	297.4	288.1	281.5	272.3	248.5	243.2
82.5°	619.9	497.0	335.7	311.9	237.9	198.3	208.8	211.5	212.8	187.7	185.0
85°	296.1	263.0	189.0	177.1	138.8	111.0	128.2	138.8	140.1	115.0	107.1
87.5°	141.4	137.5	88.6	67.4	51.5	37.0	44.9	55.5	60.8	43.6	38.3
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)