

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: P319843

Luminaire Tested: **GAN-SA9B-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319843
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-SA9B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 40600 lumens
Efficiency: N/A
Efficacy: 108.6 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): 374
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



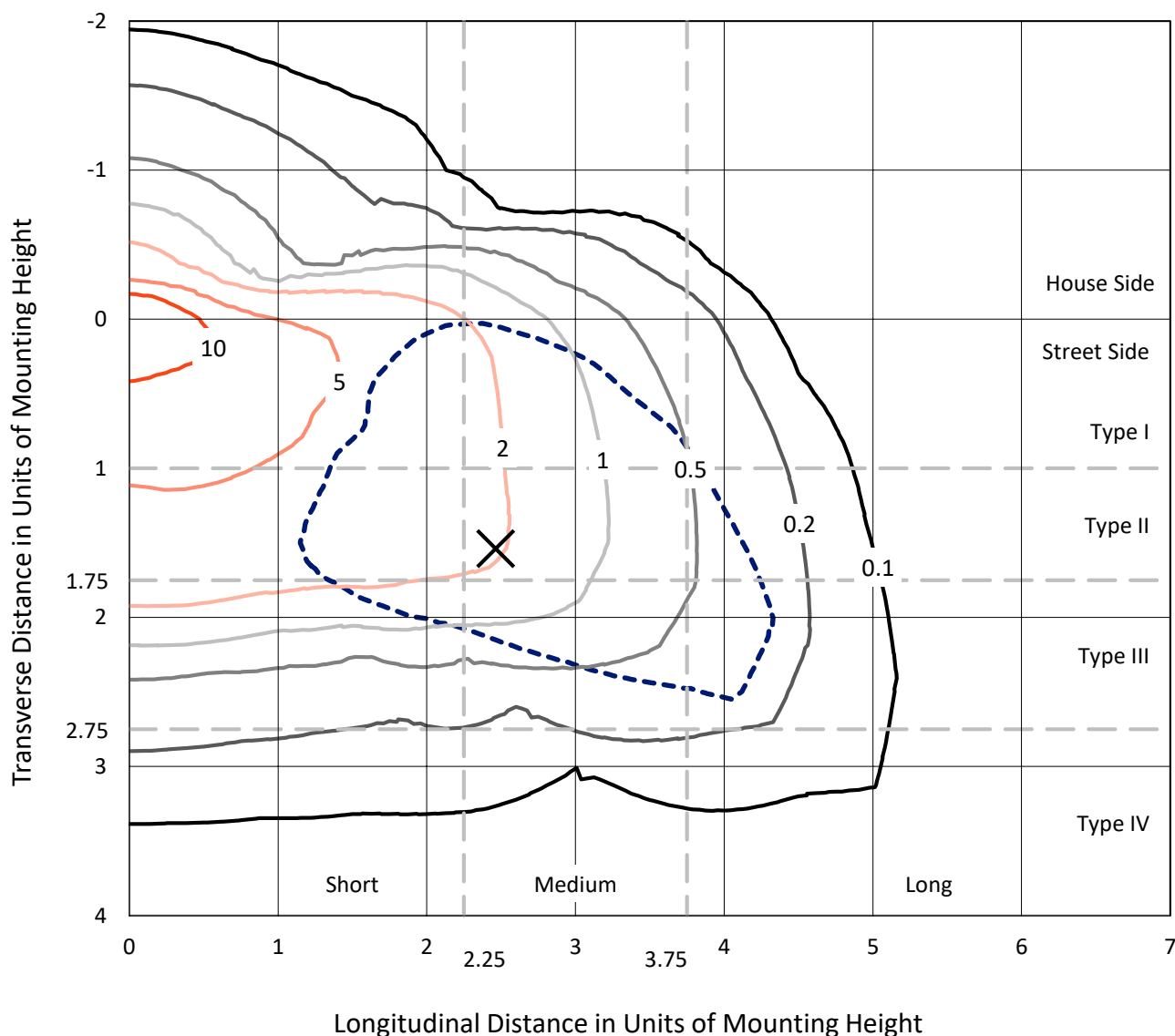
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

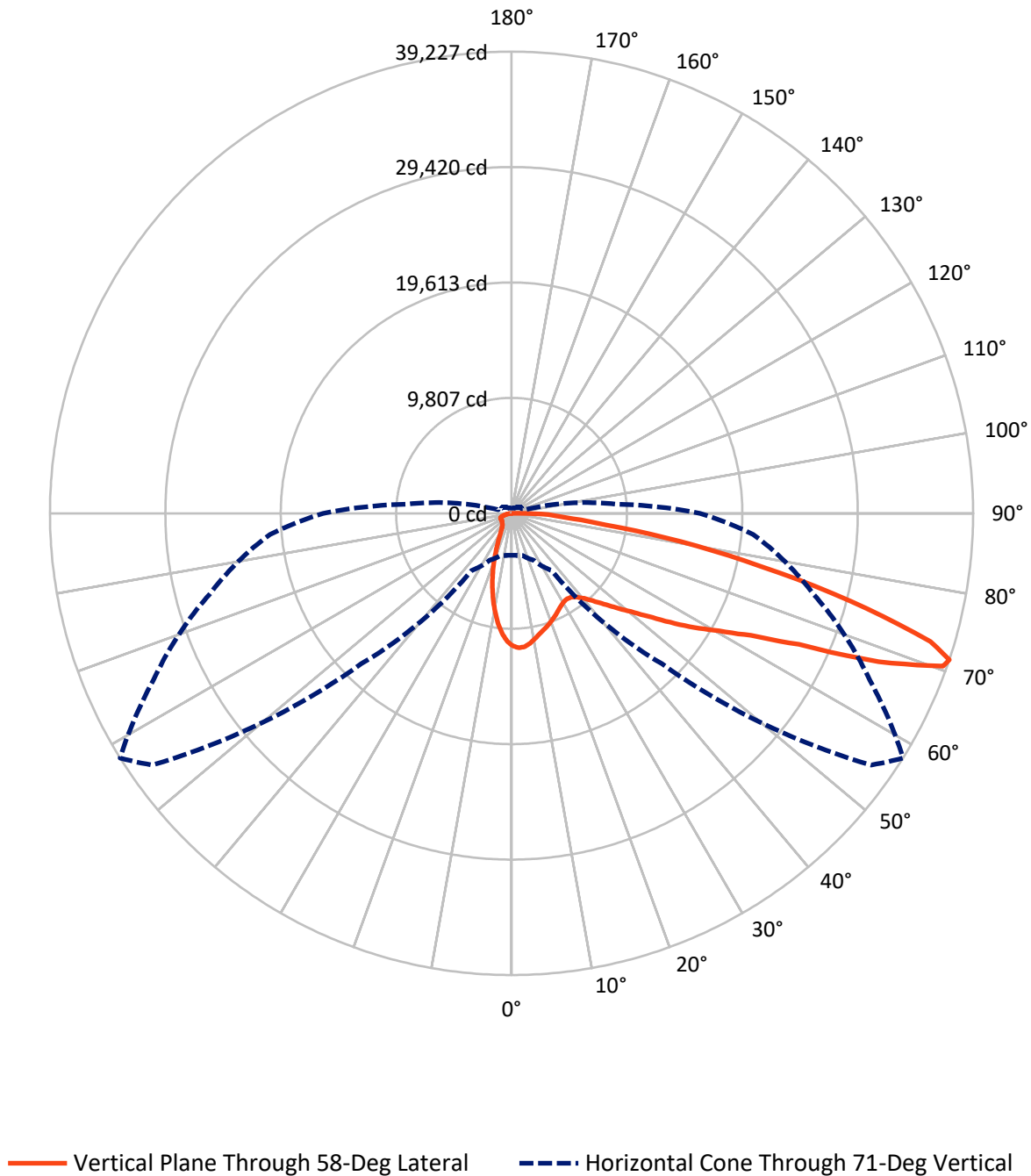
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6070.0	0.0	6070.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	34530.0	0.0	34530.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	40600.0	0.0	40600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	970.4	2.4
10°-20°	2157.9	5.3
20°-30°	2742.5	6.8
30°-40°	3493.3	8.6
40°-50°	4953.7	12.2
50°-60°	7666.1	18.9
60°-70°	10436.4	25.7
70°-80°	6962.3	17.1
80°-90°	1217.3	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°	40600.0	100.0
0°-180°	40600.0	100.0

Coefficient of Utilization



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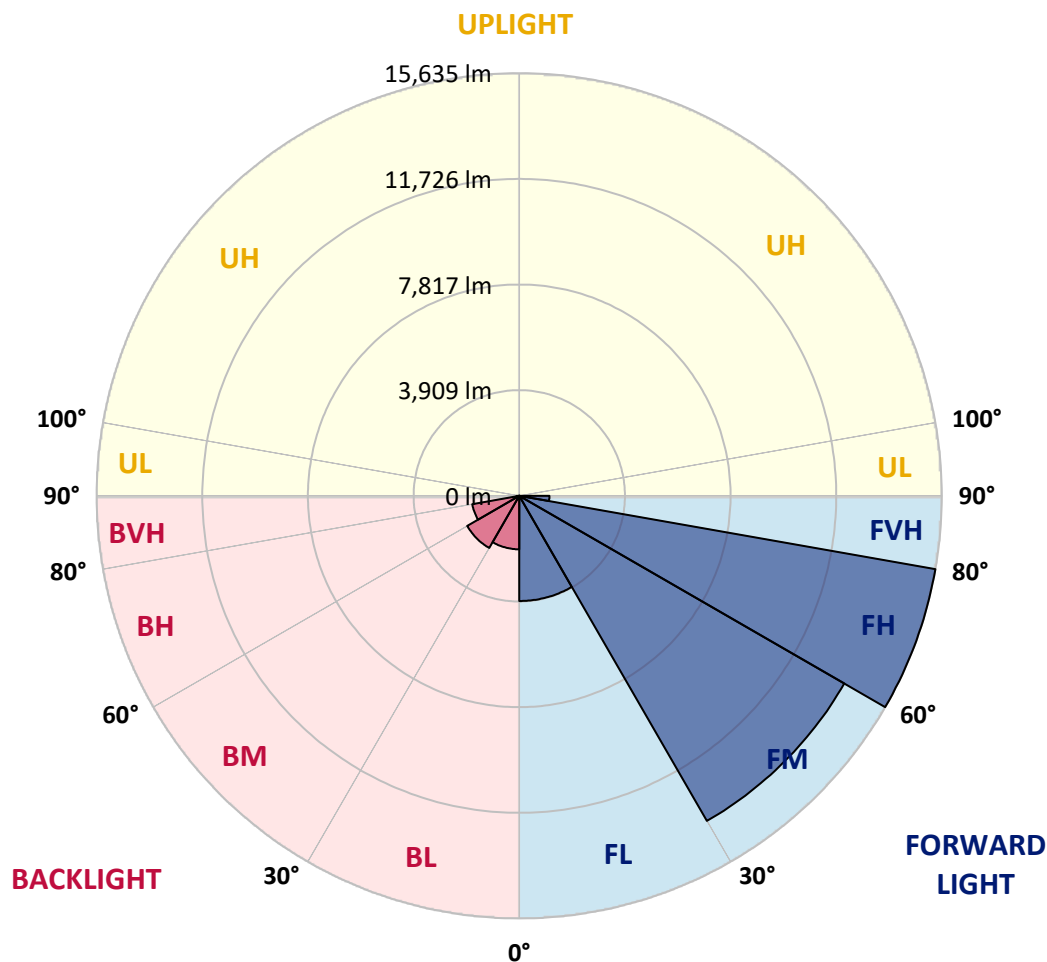
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3892.2	9.6			
FM	(30°-60°)	13887.2	34.2			
FH	(60°-80°)	15634.6	38.5			G5
FVH	(80°-90°)	1116.1	2.7			G5
BL	(0°-30°)	1978.6	4.9	B3/2500		
BM	(30°-60°)	2226.0	5.5	B2/2500		
BH	(60°-80°)	1764.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	101.1	0.2			G2/225
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°	11248.9	11248.9	11248.9	11248.9	11248.9	11248.9	11248.9	11248.9	11248.9	11248.9	11248.9
2.5°	11547.3	11531.8	11537.4	11526.1	11499.2	11472.4	11432.8	11439.8	11384.7	11302.7	11200.8
5°	11329.5	11323.9	11366.3	11390.3	11410.1	11394.6	11383.3	11397.4	11316.8	11203.7	11026.9
7.5°	10872.7	10810.5	10864.2	10944.9	11021.2	11079.2	11155.6	11165.5	11114.6	10995.8	10763.8
10°	10223.6	10164.2	10243.4	10369.3	10522.0	10660.6	10814.7	10843.0	10852.9	10745.4	10464.0
12.5°	9550.4	9505.1	9584.3	9761.1	10014.3	10227.8	10473.9	10516.3	10604.0	10531.9	10186.8
15°	8947.9	8931.0	9027.1	9201.1	9492.4	9819.1	10174.1	10251.9	10400.4	10376.3	9970.4
17.5°	8427.5	8423.3	8496.8	8679.2	9001.7	9414.6	9875.7	10007.2	10227.8	10256.1	9792.2
20°	8040.0	8031.5	8082.4	8216.8	8549.1	9017.2	9553.2	9734.3	10052.5	10151.5	9608.4
22.5°	7832.1	7830.7	7832.1	7895.7	8167.3	8602.9	9239.3	9459.9	9881.3	10068.0	9404.7
25°	7796.7	7792.5	7761.4	7754.3	7908.5	8256.4	8928.1	9171.4	9718.7	10010.0	9211.0
27.5°	7888.7	7894.3	7853.3	7786.8	7818.0	8028.7	8658.0	8918.2	9588.6	9998.7	9076.6
30°	8079.6	8076.8	8041.4	7972.1	7911.3	7943.8	8465.7	8725.9	9500.9	10048.2	8984.7
32.5°	8290.3	8305.9	8298.8	8260.6	8170.1	8040.0	8407.7	8662.3	9475.4	10167.0	8945.1
35°	8543.5	8560.4	8611.3	8641.0	8535.0	8325.7	8532.1	8752.8	9549.0	10390.5	9008.7
37.5°	8783.9	8827.7	8970.6	9096.4	9005.9	8772.6	8863.1	9020.1	9776.7	10742.6	9179.9
40°	9061.1	9099.3	9332.6	9599.9	9585.8	9343.9	9396.3	9500.9	10178.3	11247.5	9489.6
42.5°	9334.0	9410.4	9748.4	10127.4	10236.3	10022.8	10106.2	10161.4	10744.0	11916.4	10029.8
45°	9697.5	9779.5	10249.0	10705.8	10960.4	10840.2	10973.1	10994.3	11455.4	12827.2	10814.7
47.5°	10247.6	10341.0	10888.3	11367.7	11756.6	11769.4	11988.6	11980.1	12343.5	13869.5	11803.3
50°	11104.7	11239.0	11687.3	12135.6	12608.0	12871.1	13163.8	13122.8	13408.5	14979.7	12941.8
52.5°	12227.6	12289.8	12622.1	12953.1	13540.0	14129.7	14549.8	14513.0	14616.2	16121.0	14234.4
55°	13391.5	13438.2	13575.3	13756.4	14545.5	15507.2	16395.4	16337.4	16075.7	17306.1	15511.5
57.5°	14438.0	14532.8	14627.5	14702.5	15558.1	16946.9	18283.4	18287.6	17659.7	18584.6	16830.9
60°	14600.7	14684.1	15310.6	15901.8	17290.6	18867.5	20304.3	20261.9	19298.8	19972.0	18301.8
62.5°	12906.4	13094.5	14141.0	15713.7	18959.4	22380.4	22882.5	22830.2	21258.9	21681.8	20014.4
65°	9249.2	9462.7	10725.6	13088.8	18150.4	26251.2	27535.4	26831.1	23931.9	23784.8	22019.8
67.5°	5336.0	5386.9	5934.2	7832.1	13820.0	26453.5	34633.5	33647.7	28082.7	26170.6	23001.3
70°	3945.7	3944.3	4074.4	4819.8	7478.5	21589.9	38009.3	38893.2	32452.7	26955.5	21613.9
71°	3568.1	3572.4	3718.1	4387.0	5922.9	18071.2	37292.3	39226.9	33603.9	26568.0	20609.8
72.5°	3051.9	3066.1	3268.3	3934.4	4982.4	12462.3	34203.5	37224.4	34149.8	25612.0	19038.6
75°	2315.1	2347.6	2627.7	3316.4	4553.9	6320.3	25102.9	29724.6	30337.0	22599.7	14146.7
77.5°	1651.8	1688.6	2005.4	2788.9	4329.0	4763.2	16811.1	21681.8	22325.3	14483.3	6381.1
80°	1043.7	1087.6	1326.6	2219.0	4067.4	4522.8	10564.4	14573.8	12173.8	4634.5	1623.6
82.5°	612.4	646.3	823.1	1449.6	3322.1	4355.9	6215.6	8078.2	4737.7	1400.1	738.2
85°	355.0	370.5	513.4	923.5	2412.7	4111.2	4566.6	4515.7	2056.3	684.5	349.3
87.5°	165.5	183.9	304.1	482.3	1339.3	2979.8	3609.2	3118.4	1278.5	321.0	164.1
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°	11248.9	11248.9	11248.9	11248.9	11248.9	11248.9	11248.9	11248.9	11248.9	11248.9	11248.9
2.5°	11151.3	11127.3	11026.9	10937.8	10844.4	10722.8	10588.5	10571.5	10489.5	10505.0	10476.7
5°	10930.7	10869.9	10628.1	10408.9	10150.0	9918.1	9666.4	9550.4	9383.5	9372.2	9329.8
7.5°	10615.3	10502.2	10127.4	9711.6	9295.8	8899.9	8508.1	8250.7	7987.7	7875.9	7866.0
10°	10260.4	10068.0	9516.5	8901.3	8301.6	7723.2	7163.2	6748.8	6375.4	6198.6	6191.6
12.5°	9923.8	9639.5	8882.9	8045.6	7225.4	6475.8	5707.9	5163.4	4695.3	4538.3	4471.8
15°	9638.1	9237.9	8266.3	7195.7	6200.1	5159.2	4285.2	3712.4	3279.6	3129.7	3101.4
17.5°	9360.9	8846.1	7634.1	6337.2	5133.7	3989.6	3114.2	2688.5	2458.0	2397.1	2395.7
20°	9085.1	8443.0	6973.6	5459.0	4102.7	2984.1	2394.3	2203.4	2125.6	2118.5	2107.2
22.5°	8772.6	8015.9	6279.3	4577.9	3201.9	2346.2	2035.1	1958.7	1948.8	1974.3	1974.3
25°	8479.8	7591.7	5575.0	3715.2	2490.5	1957.3	1817.3	1801.7	1828.6	1873.9	1878.1
27.5°	8206.9	7183.0	4887.6	2948.7	1995.5	1724.0	1666.0	1684.4	1732.5	1784.8	1786.2
30°	7982.0	6796.9	4220.1	2323.6	1685.8	1550.0	1540.1	1576.9	1629.2	1670.2	1680.1
32.5°	7808.1	6467.3	3575.2	1868.2	1483.5	1419.9	1428.4	1459.5	1492.0	1514.7	1530.2
35°	7727.4	6184.5	2979.8	1575.5	1354.8	1319.5	1330.8	1347.8	1361.9	1378.9	1391.6
37.5°	7741.6	5965.3	2448.1	1393.0	1268.6	1250.2	1250.2	1250.2	1250.2	1258.7	1260.1
40°	7873.1	5839.4	2015.3	1277.1	1210.6	1190.8	1175.2	1161.1	1149.8	1155.4	1152.6
42.5°	8209.7	5828.1	1698.5	1203.5	1163.9	1131.4	1100.3	1080.5	1066.3	1072.0	1074.8
45°	8781.1	5969.5	1485.0	1151.2	1120.1	1070.6	1031.0	1009.8	999.9	1018.3	1021.1
47.5°	9520.7	6277.8	1354.8	1113.0	1079.1	1014.0	971.6	951.8	954.6	981.5	988.6
50°	10473.9	6778.5	1292.6	1089.0	1050.8	965.9	922.1	905.1	913.6	951.8	960.3
52.5°	11520.4	7499.7	1299.7	1081.9	1032.4	930.6	883.9	864.1	878.2	913.6	920.7
55°	12728.2	8366.7	1417.1	1091.8	1005.5	907.9	852.8	818.8	830.2	862.7	868.3
57.5°	14070.3	9359.5	1653.3	1089.0	971.6	886.7	820.3	769.3	777.8	797.6	803.3
60°	15467.6	10558.8	2019.5	1097.5	956.0	861.3	776.4	712.8	710.0	726.9	729.8
62.5°	17144.9	11946.1	2438.2	1103.1	965.9	828.7	718.4	656.2	647.7	652.0	654.8
65°	18873.1	12950.3	2281.2	1080.5	997.0	801.9	667.5	601.1	585.5	582.7	584.1
67.5°	18926.9	11874.0	1599.5	1035.2	1009.8	787.7	629.3	554.4	528.9	519.0	517.6
70°	16973.8	9646.6	1246.0	987.1	958.9	765.1	594.0	516.2	478.0	462.5	461.0
71°	16020.6	8880.1	1180.9	963.1	920.7	742.5	578.4	499.2	459.6	442.7	439.8
72.5°	14525.7	7960.8	1101.7	924.9	847.1	684.5	548.7	475.2	434.2	414.4	410.1
75°	10424.4	5205.8	946.1	824.5	701.5	545.9	480.8	427.1	391.7	367.7	364.9
77.5°	4016.5	2071.9	715.6	685.9	537.4	427.1	396.0	369.1	343.7	319.6	318.2
80°	1241.7	926.3	521.9	516.2	388.9	318.2	308.3	301.2	291.3	265.9	260.2
82.5°	663.3	531.8	359.2	333.8	254.6	212.1	223.5	226.3	227.7	200.8	198.0
85°	316.8	281.4	202.2	189.5	148.5	118.8	137.2	148.5	149.9	123.0	114.6
87.5°	151.3	147.1	94.8	72.1	55.2	39.6	48.1	59.4	65.1	46.7	41.0
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)