

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: P319861

Luminaire Tested: **GAN-SA7D-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319861
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-SA7D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA 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: 43614 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

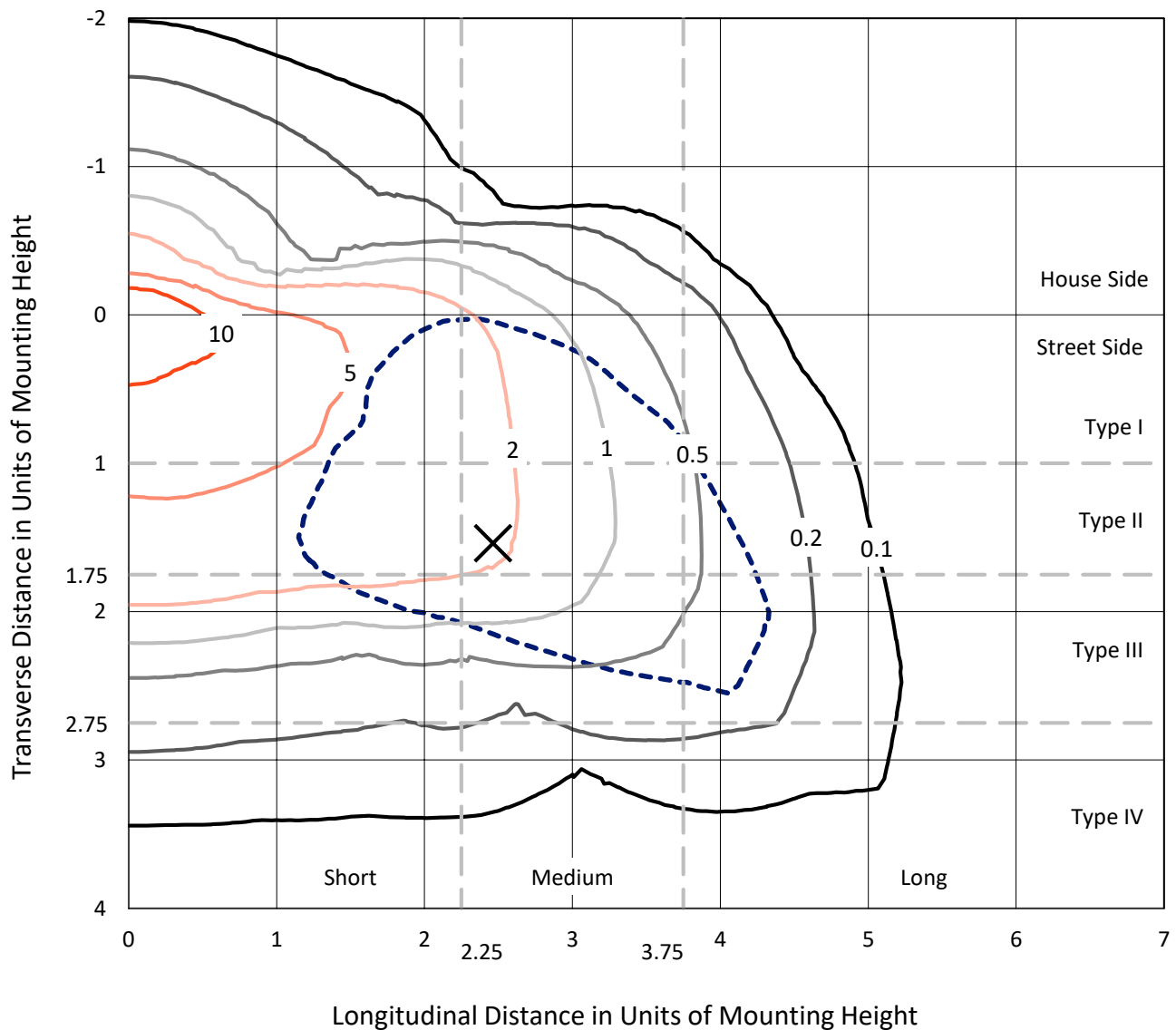
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319861
 CATALOG NUMBER: GAN-SA7D-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

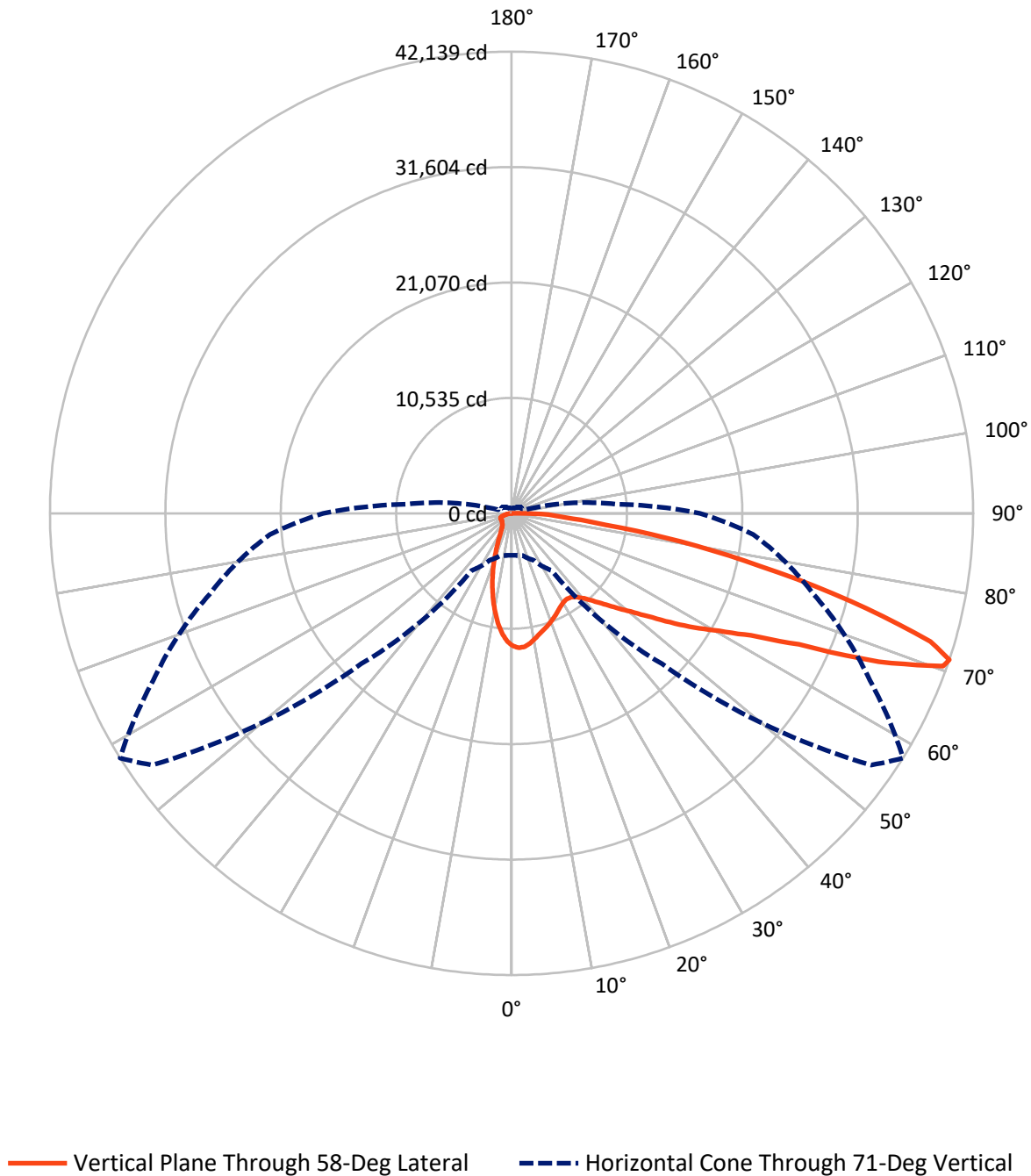
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P319861
CATALOG NUMBER: GAN-SA7D-830-U-SL3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6520.6	0.0	6520.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	37093.4	0.0	37093.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	43614.0	0.0	43614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1042.5	2.4
10°-20°	2318.1	5.3
20°-30°	2946.1	6.8
30°-40°	3752.7	8.6
40°-50°	5321.5	12.2
50°-60°	8235.2	18.9
60°-70°	11211.2	25.7
70°-80°	7479.2	17.1
80°-90°	1307.6	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°	43614.0	100.0
0°-180°	43614.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319861

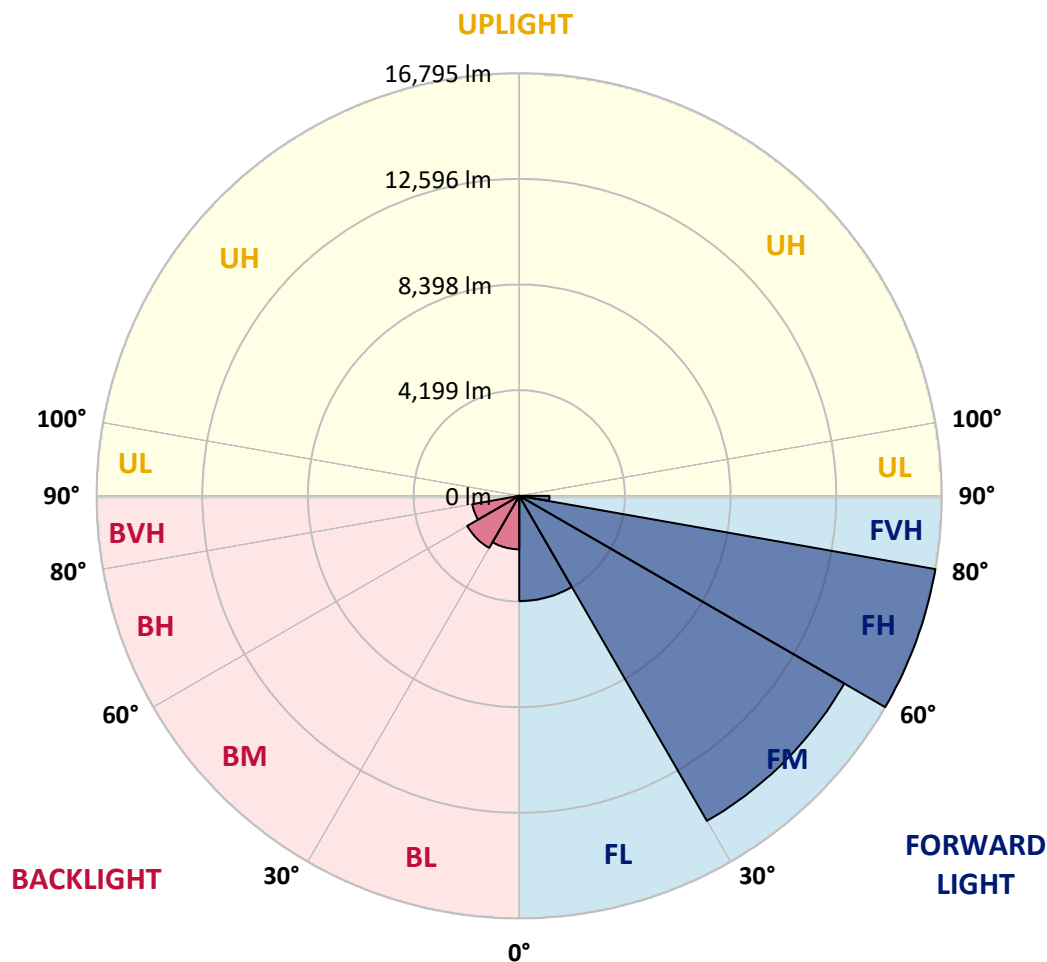
CATALOG NUMBER: GAN-SA7D-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4181.1	9.6			
FM	(30°-60°)	14918.1	34.2			
FH	(60°-80°)	16795.2	38.5			G5
FVH	(80°-90°)	1199.0	2.7			G5
BL	(0°-30°)	2125.5	4.9	B3/2500		
BM	(30°-60°)	2391.3	5.5	B2/2500		
BH	(60°-80°)	1895.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	108.6	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





REPORT NUMBER: P319861

CATALOG NUMBER: GAN-SA7D-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12084.0	12084.0	12084.0	12084.0	12084.0	12084.0	12084.0	12084.0	12084.0	12084.0	12084.0
2.5°	12404.6	12387.8	12393.9	12381.8	12352.9	12324.0	12281.5	12289.1	12229.8	12141.7	12032.3
5°	12170.6	12164.5	12210.1	12235.9	12257.2	12240.5	12228.3	12243.5	12156.9	12035.4	11845.5
7.5°	11679.9	11613.0	11670.8	11757.4	11839.4	11901.7	11983.7	11994.4	11939.7	11812.1	11562.9
10°	10982.5	10918.7	11003.8	11139.0	11303.1	11452.0	11617.6	11648.0	11658.6	11543.1	11240.8
12.5°	10259.4	10210.8	10295.9	10485.8	10757.7	10987.1	11251.5	11297.0	11391.2	11313.7	10943.0
15°	9612.2	9594.0	9697.3	9884.1	10197.1	10548.0	10929.4	11012.9	11172.5	11146.6	10710.6
17.5°	9053.1	9048.6	9127.6	9323.5	9669.9	10113.5	10608.8	10750.1	10987.1	11017.5	10519.2
20°	8636.8	8627.7	8682.4	8826.8	9183.8	9686.6	10262.4	10456.9	10798.7	10905.1	10321.7
22.5°	8413.5	8412.0	8413.5	8481.9	8773.6	9241.5	9925.2	10162.2	10614.9	10815.4	10102.9
25°	8375.5	8371.0	8337.6	8330.0	8495.6	8869.3	9590.9	9852.2	10440.2	10753.1	9894.8
27.5°	8474.3	8480.4	8436.3	8364.9	8398.3	8624.7	9300.8	9580.3	10300.4	10741.0	9750.4
30°	8679.4	8676.3	8638.4	8563.9	8498.6	8533.5	9094.1	9373.7	10206.2	10794.2	9651.7
32.5°	8905.8	8922.5	8914.9	8873.9	8776.6	8636.8	9031.9	9305.3	10178.9	10921.8	9609.2
35°	9177.7	9195.9	9250.6	9282.5	9168.6	8943.7	9165.5	9402.5	10257.9	11161.8	9677.5
37.5°	9436.0	9483.1	9636.5	9771.7	9674.5	9423.8	9521.0	9689.7	10502.5	11540.1	9861.4
40°	9733.7	9774.8	10025.4	10312.6	10297.4	10037.6	10093.8	10206.2	10933.9	12082.5	10194.1
42.5°	10026.9	10109.0	10472.1	10879.2	10996.2	10766.8	10856.5	10915.7	11541.6	12801.1	10774.4
45°	10417.4	10505.5	11009.9	11500.6	11774.1	11644.9	11787.7	11810.5	12305.8	13779.5	11617.6
47.5°	11008.4	11108.6	11696.6	12211.6	12629.4	12643.1	12878.6	12869.4	13259.9	14899.1	12679.5
50°	11929.0	12073.4	12555.0	13036.6	13544.0	13826.6	14141.0	14097.0	14403.9	16091.7	13902.5
52.5°	13135.3	13202.2	13559.2	13914.7	14545.2	15178.7	15629.9	15590.4	15701.3	17317.8	15291.1
55°	14385.6	14435.8	14583.1	14777.6	15625.3	16658.4	17612.5	17550.2	17269.1	18590.9	16663.0
57.5°	15509.9	15611.7	15713.4	15794.0	16713.1	18205.0	19640.7	19645.2	18970.7	19964.3	18080.4
60°	15684.6	15774.2	16447.2	17082.3	18574.2	20268.1	21811.7	21766.1	20731.5	21454.6	19660.4
62.5°	13864.5	14066.6	15190.8	16880.2	20366.9	24041.9	24581.2	24525.0	22837.1	23291.4	21500.2
65°	9935.8	10165.2	11521.9	14060.5	19497.9	28200.0	29579.5	28822.9	25708.5	25550.5	23654.5
67.5°	5732.1	5786.8	6374.7	8413.5	14846.0	28417.3	37204.5	36145.6	30167.4	28113.4	24708.8
70°	4238.7	4237.1	4376.9	5177.6	8033.7	23192.6	40831.0	41780.5	34861.9	28956.6	23218.5
71°	3833.0	3837.6	3994.1	4712.7	6362.6	19412.8	40060.7	42139.0	36098.5	28540.3	22139.8
72.5°	3278.5	3293.7	3511.0	4226.5	5352.3	13387.5	36742.7	39987.8	36685.0	27513.3	20451.9
75°	2487.0	2521.9	2822.7	3562.6	4891.9	6789.5	26966.4	31931.3	32589.1	24277.4	15196.9
77.5°	1774.5	1814.0	2154.3	2995.9	4650.4	5116.8	18059.1	23291.4	23982.6	15558.5	6854.8
80°	1121.2	1168.3	1425.0	2383.7	4369.3	4858.5	11348.7	15655.7	13077.6	4978.5	1744.1
82.5°	657.8	694.3	884.2	1557.2	3568.7	4679.2	6677.0	8677.9	5089.4	1504.0	793.0
85°	381.3	398.0	551.5	992.1	2591.8	4416.4	4905.6	4850.9	2209.0	735.3	375.3
87.5°	177.8	197.5	326.6	518.1	1438.7	3201.0	3877.1	3349.9	1373.4	344.9	176.2
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: P319861

CATALOG NUMBER: GAN-SA7D-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12084.0	12084.0	12084.0	12084.0	12084.0	12084.0	12084.0	12084.0	12084.0	12084.0	12084.0
2.5°	11979.2	11953.3	11845.5	11749.8	11649.5	11518.8	11374.5	11356.3	11268.2	11284.9	11254.5
5°	11742.2	11676.8	11417.0	11181.6	10903.5	10654.4	10384.0	10259.4	10080.1	10068.0	10022.4
7.5°	11403.4	11281.8	10879.2	10432.6	9985.9	9560.5	9139.7	8863.2	8580.6	8460.6	8450.0
10°	11022.0	10815.4	10222.9	9562.1	8917.9	8296.5	7694.9	7249.8	6848.7	6658.8	6651.2
12.5°	10660.5	10355.1	9542.3	8642.9	7761.8	6956.6	6131.6	5546.7	5043.9	4875.2	4803.8
15°	10353.6	9923.6	8879.9	7729.9	6660.3	5542.2	4603.3	3988.0	3523.1	3362.1	3331.7
17.5°	10055.8	9502.8	8200.8	6807.7	5514.8	4285.8	3345.4	2888.1	2640.4	2575.1	2573.6
20°	9759.6	9069.8	7491.3	5864.2	4407.3	3205.6	2572.1	2367.0	2283.4	2275.8	2263.7
22.5°	9423.8	8611.0	6745.4	4917.8	3439.5	2520.4	2186.2	2104.1	2093.5	2120.9	2120.9
25°	9109.3	8155.3	5988.8	3991.0	2675.4	2102.6	1952.2	1935.5	1964.4	2013.0	2017.5
27.5°	8816.1	7716.2	5250.5	3167.6	2143.6	1851.9	1789.7	1809.4	1861.1	1917.3	1918.8
30°	8574.6	7301.4	4533.4	2496.1	1810.9	1665.1	1654.4	1693.9	1750.2	1794.2	1804.9
32.5°	8387.7	6947.5	3840.6	2006.9	1593.7	1525.3	1534.4	1567.9	1602.8	1627.1	1643.8
35°	8301.1	6643.6	3201.0	1692.4	1455.4	1417.4	1429.6	1447.8	1463.0	1481.3	1494.9
37.5°	8316.3	6408.1	2629.8	1496.4	1362.8	1343.0	1343.0	1343.0	1343.0	1352.1	1353.6
40°	8457.6	6272.9	2164.9	1371.9	1300.5	1279.2	1262.5	1247.3	1235.1	1241.2	1238.2
42.5°	8819.2	6260.8	1824.6	1292.9	1250.3	1215.4	1182.0	1160.7	1145.5	1151.6	1154.6
45°	9432.9	6412.7	1595.2	1236.7	1203.2	1150.1	1107.5	1084.7	1074.1	1093.8	1096.9
47.5°	10227.5	6743.9	1455.4	1195.6	1159.2	1089.3	1043.7	1022.4	1025.5	1054.3	1061.9
50°	11251.5	7281.7	1388.6	1169.8	1128.8	1037.6	990.5	972.3	981.4	1022.4	1031.6
52.5°	12375.7	8056.5	1396.2	1162.2	1109.0	999.7	949.5	928.3	943.4	981.4	989.0
55°	13673.1	8987.8	1522.3	1172.8	1080.2	975.3	916.1	879.6	891.8	926.7	932.8
57.5°	15114.9	10054.3	1776.0	1169.8	1043.7	952.6	881.2	826.5	835.6	856.8	862.9
60°	16615.9	11342.6	2169.5	1178.9	1027.0	925.2	834.1	765.7	762.7	780.9	783.9
62.5°	18417.7	12833.0	2619.2	1185.0	1037.6	890.3	771.8	704.9	695.8	700.4	703.4
65°	20274.2	13911.6	2450.5	1160.7	1071.1	861.4	717.1	645.7	629.0	625.9	627.4
67.5°	20331.9	12755.5	1718.3	1112.1	1084.7	846.2	676.1	595.5	568.2	557.6	556.0
70°	18233.9	10362.7	1338.4	1060.4	1030.0	821.9	638.1	554.5	513.5	496.8	495.3
71°	17209.9	9539.3	1268.6	1034.6	989.0	797.6	621.4	536.3	493.8	475.5	472.5
72.5°	15604.1	8551.8	1183.5	993.6	910.0	735.3	589.5	510.5	466.4	445.1	440.6
75°	11198.3	5592.3	1016.4	885.7	753.5	586.4	516.5	458.8	420.8	395.0	392.0
77.5°	4314.6	2225.7	768.7	736.8	577.3	458.8	425.4	396.5	369.2	343.3	341.8
80°	1333.9	995.1	560.6	554.5	417.8	341.8	331.2	323.6	313.0	285.6	279.5
82.5°	712.5	571.2	385.9	358.5	273.5	227.9	240.0	243.1	244.6	215.7	212.7
85°	340.3	302.3	217.3	203.6	159.5	127.6	147.4	159.5	161.0	132.2	123.1
87.5°	162.6	158.0	101.8	77.5	59.3	42.5	51.7	63.8	69.9	50.1	44.1
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)