

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: P192906

Luminaire Tested: **GAN-AF-08-LED-U-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 37280.3 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

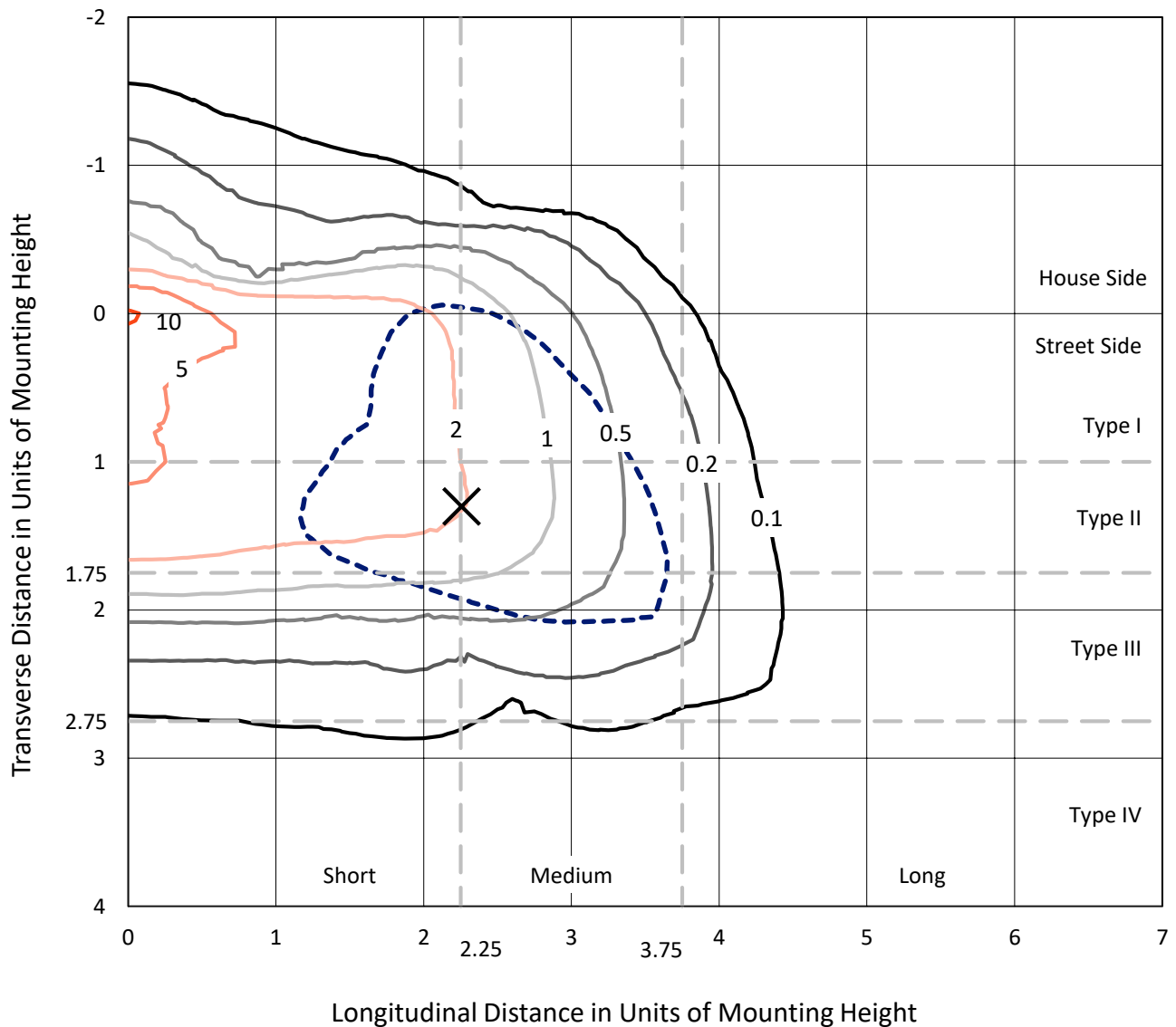
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

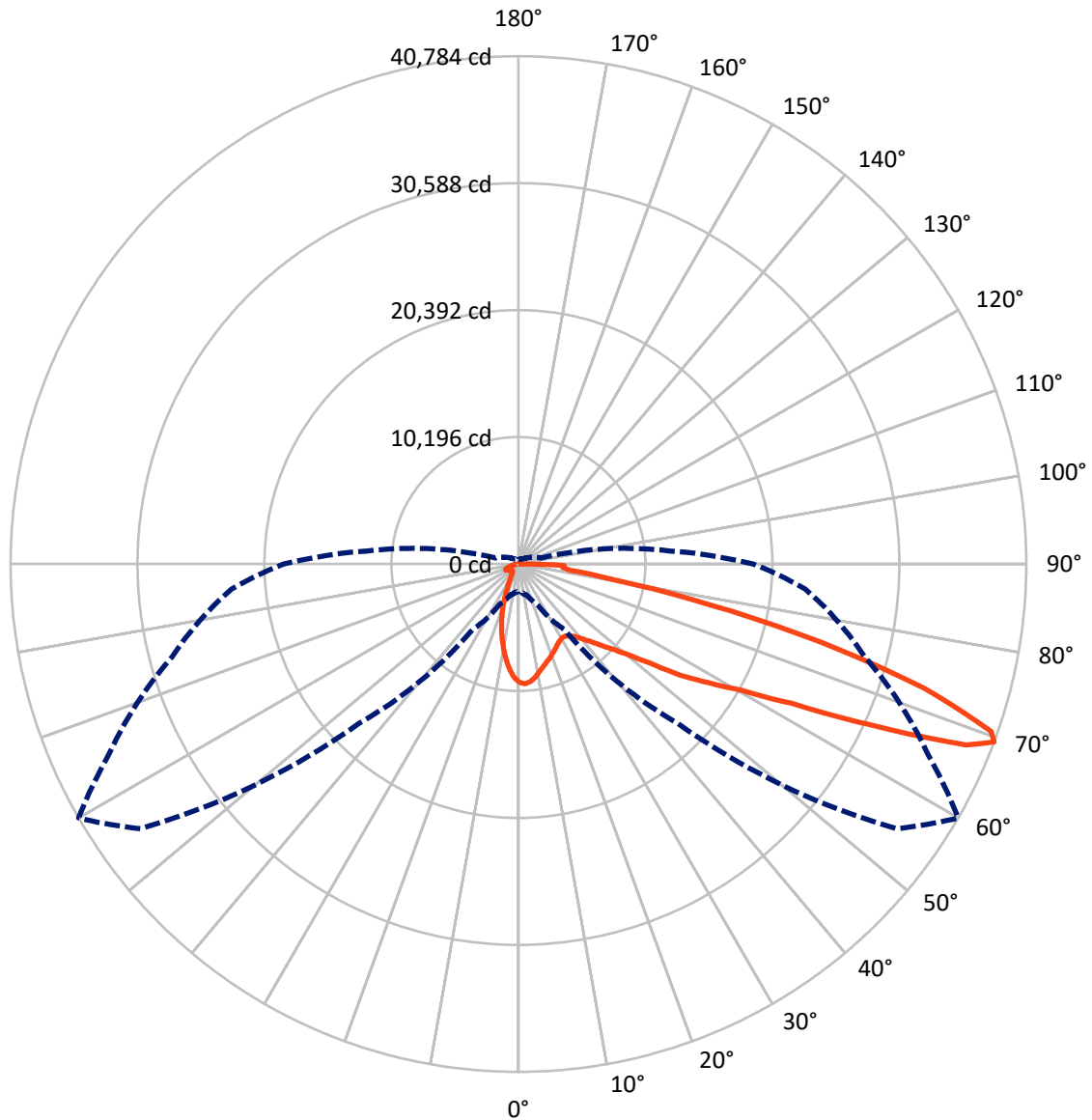
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5303.8	0.0	5303.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	31976.5	0.0	31976.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	37280.3	0.0	37280.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.2	2.2
10°-20°	1711.3	4.6
20°-30°	2180.5	5.8
30°-40°	2997.7	8.0
40°-50°	4864.0	13.0
50°-60°	7800.6	20.9
60°-70°	10382.1	27.8
70°-80°	5605.5	15.0
80°-90°	935.3	2.5
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°	37280.3	100.0
0°-180°	37280.3	100.0

Coefficient of Utilization



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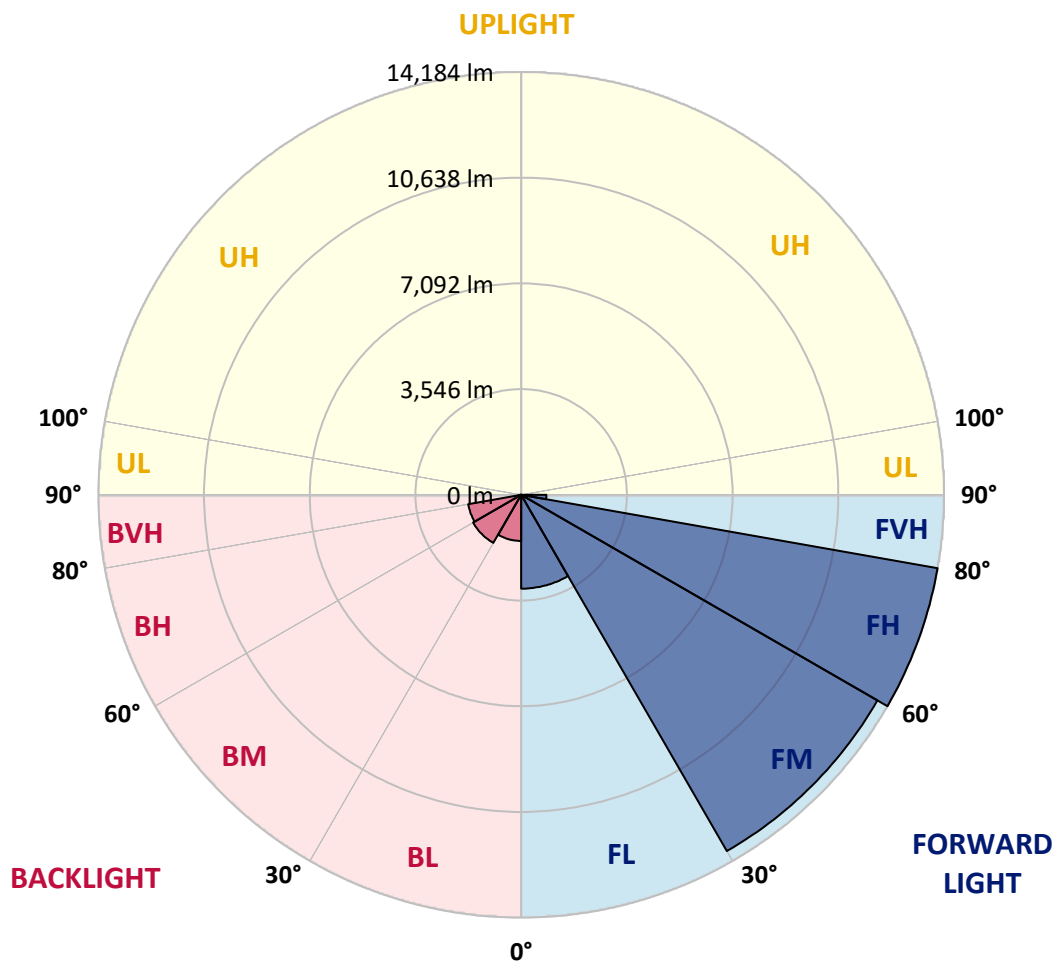
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3147.8	8.4			
FM	(30°-60°)	13799.0	37.0			
FH	(60°-80°)	14184.5	38.0			G5
FVH	(80°-90°)	845.2	2.3			G5
BL	(0°-30°)	1547.3	4.2	B3/2500		
BM	(30°-60°)	1863.3	5.0	B2/2500		
BH	(60°-80°)	1803.1	4.8	B3/2500		G3/2500
BVH	(80°-90°)	90.1	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°	60°	65°	75°	85°
0°	9499.5	9499.5	9499.5	9499.5	9499.5	9499.5	9499.5	9499.5	9499.5	9499.5	9499.5
2.5°	9694.1	9715.7	9706.7	9701.3	9717.5	9692.3	9640.1	9623.9	9598.7	9539.2	9438.4
5°	9330.3	9395.2	9391.6	9440.2	9521.2	9542.8	9519.4	9523.0	9476.2	9402.3	9234.9
7.5°	8701.9	8728.8	8743.3	8849.5	8997.2	9116.0	9216.9	9249.3	9227.7	9164.6	8948.6
10°	8053.5	8075.2	8109.3	8233.6	8420.8	8584.7	8775.7	8885.5	8932.3	8921.6	8680.2
12.5°	7497.1	7518.6	7563.7	7704.1	7927.5	8129.1	8406.5	8543.3	8655.0	8721.6	8462.3
15°	6998.2	7045.0	7088.2	7250.3	7500.6	7765.4	8078.7	8251.6	8424.4	8573.9	8269.7
17.5°	6609.2	6656.1	6681.2	6828.9	7095.4	7419.6	7787.0	7990.4	8206.6	8451.5	8078.7
20°	6384.1	6405.7	6395.0	6477.8	6717.3	7061.2	7497.1	7733.0	7994.1	8336.3	7887.9
22.5°	6321.0	6322.9	6283.3	6274.2	6429.2	6719.0	7187.3	7473.7	7794.2	8260.5	7724.0
25°	6474.1	6468.7	6360.6	6272.5	6288.6	6457.9	6888.4	7221.5	7626.8	8244.3	7597.9
27.5°	6814.5	6830.7	6670.4	6504.7	6340.9	6335.5	6661.4	7012.6	7489.8	8318.2	7543.8
30°	7291.8	7318.7	7147.6	6937.0	6629.0	6375.1	6573.1	6888.4	7405.1	8471.3	7534.8
32.5°	7814.0	7842.8	7713.1	7491.6	7088.2	6620.0	6634.4	6899.1	7401.6	8685.6	7596.0
35°	8370.5	8402.9	8336.3	8149.0	7700.5	7072.1	6868.5	7073.8	7518.6	9013.4	7759.9
37.5°	8991.7	9042.2	9060.3	8881.9	8402.9	7668.2	7252.1	7405.1	7783.4	9469.0	8060.7
40°	9886.8	9957.1	9951.7	9695.8	9207.9	8473.0	7844.6	7884.2	8195.7	10077.6	8541.6
42.5°	11601.2	11615.6	11167.2	10610.7	10093.9	9319.5	8543.3	8511.0	8764.9	10848.5	9249.3
45°	13782.1	13722.6	12725.0	11649.9	11019.6	10292.0	9452.8	9294.2	9487.0	11788.5	10135.3
47.5°	15592.0	15455.0	14194.5	12710.5	11999.2	11349.1	10520.7	10243.4	10349.6	12854.6	11280.7
50°	16220.4	16117.8	15073.3	13593.0	12926.7	12638.6	11835.3	11442.7	11471.5	14126.0	12622.2
52.5°	16085.3	16071.0	15374.1	14174.6	13794.6	13992.8	13697.4	13166.2	12885.3	15538.0	14070.2
55°	15766.6	15797.2	15545.1	14851.8	14786.9	15300.2	16130.4	15737.8	14864.4	16962.4	15566.7
57.5°	14659.1	14738.3	15293.0	15703.7	16384.3	17147.9	18089.7	17978.1	16994.8	18502.2	17346.0
60°	11810.2	11993.8	13481.3	15538.0	18028.6	20416.5	20837.9	20578.6	19191.9	20412.9	19696.1
62.5°	8275.0	8466.0	10234.4	13452.5	17758.4	24108.3	25750.7	24632.3	22347.1	23227.7	22737.8
65°	4430.1	4522.0	5872.6	9333.9	14992.2	24870.0	32930.7	31228.9	27342.6	26697.9	25340.1
67.5°	2443.8	2494.2	3011.0	4712.9	9602.2	21900.4	37505.0	38790.8	33586.3	29008.5	24866.5
69°	2209.7	2256.5	2595.0	3569.3	6425.5	18107.7	37058.3	40784.3	36323.6	28779.8	23116.0
70°	2161.0	2204.3	2508.6	3290.3	5201.0	14925.6	35561.8	40274.7	36975.5	27960.3	21588.9
72.5°	1945.0	1991.8	2287.2	2955.3	4444.5	7441.2	28169.2	34052.8	33570.0	24243.3	16375.3
75°	1813.4	1856.8	2357.4	2894.0	4255.4	4709.3	18570.6	25097.0	24677.3	16958.7	8829.7
77.5°	776.2	772.6	1093.1	2449.1	4318.5	4559.8	9978.6	15678.3	14304.3	7248.5	2535.6
80°	518.7	509.7	518.7	720.3	3960.1	4585.1	5227.9	7958.0	6011.3	1847.7	1249.8
82.5°	446.7	439.4	455.6	439.4	1392.1	5233.3	4444.5	4232.0	2858.0	1049.9	619.5
85°	300.8	288.1	392.6	394.4	657.3	4649.8	5006.5	3574.8	2312.4	623.1	306.2
87.5°	144.1	140.5	228.7	279.1	385.3	1889.1	5616.9	3663.0	2332.1	318.7	145.9
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°	9499.5	9499.5	9499.5	9499.5	9499.5	9499.5	9499.5	9499.5	9499.5	9499.5	9499.5
2.5°	9407.8	9333.9	9261.9	9175.5	9085.5	8984.5	8934.1	8883.7	8871.1	8856.7	8806.3
5°	9148.4	9043.9	8863.8	8665.8	8456.8	8253.5	8098.6	8001.3	7927.5	7889.6	7823.0
7.5°	8813.5	8660.4	8345.2	8003.0	7651.9	7331.3	7054.0	6879.3	6713.7	6636.2	6548.0
10°	8494.7	8266.0	7776.2	7272.0	6767.6	6283.3	5827.7	5505.2	5218.9	5058.7	4945.2
12.5°	8221.0	7907.6	7228.7	6546.2	5854.6	5164.9	4482.4	3945.7	3497.3	3261.4	3140.7
15°	7954.4	7576.2	6708.3	5842.0	4954.3	4016.0	3119.2	2510.4	2139.4	1991.8	1941.3
17.5°	7713.1	7228.7	6186.0	5132.5	4025.0	2890.5	2096.2	1761.3	1619.0	1570.4	1554.1
20°	7452.0	6877.6	5643.9	4390.5	3056.1	2020.5	1637.0	1489.3	1431.8	1417.3	1410.1
22.5°	7199.8	6531.7	5125.3	3596.4	2195.2	1559.5	1406.5	1345.2	1336.2	1348.8	1348.8
25°	6985.6	6222.0	4565.2	2766.1	1611.8	1312.9	1258.7	1244.4	1278.7	1325.5	1334.5
27.5°	6825.3	5968.1	3969.2	2042.2	1284.1	1141.8	1139.9	1163.4	1248.0	1338.1	1356.0
30°	6715.4	5726.9	3331.7	1473.2	1077.0	1004.8	1033.7	1084.1	1208.4	1336.2	1370.4
32.5°	6659.6	5548.5	2667.1	1139.9	922.0	882.4	931.0	992.3	1114.8	1233.6	1278.7
35°	6702.8	5417.1	2040.4	950.9	814.0	783.4	833.7	893.2	965.3	1015.7	1049.9
37.5°	6865.0	5364.8	1539.8	851.7	740.1	711.4	750.9	785.1	814.0	828.4	844.6
40°	7214.3	5420.6	1233.6	801.4	698.7	662.7	678.9	691.5	709.5	724.0	731.2
42.5°	7729.3	5588.1	1105.7	781.5	677.1	624.9	621.2	626.7	650.1	677.1	682.6
45°	8449.7	5883.5	1096.8	794.2	666.4	594.3	578.1	585.3	621.2	662.7	670.0
47.5°	9370.0	6333.6	1168.7	832.0	675.3	578.1	551.1	560.1	605.1	660.9	670.0
50°	10484.6	6962.2	1289.5	887.8	715.0	581.7	542.0	547.5	594.3	655.5	664.6
52.5°	11801.1	7853.5	1420.9	941.9	756.4	605.1	549.2	536.7	579.8	633.9	644.7
55°	13265.2	8997.2	1556.0	990.4	777.9	633.9	563.7	522.3	552.9	597.8	606.9
57.5°	15062.5	10596.3	1790.1	1037.3	792.3	653.7	578.1	507.8	518.7	551.1	558.4
60°	17495.4	12858.1	2202.4	1114.8	824.8	660.9	576.3	495.3	484.4	502.5	506.1
62.5°	20411.0	15314.7	2546.4	1212.0	878.8	666.4	565.5	486.2	455.6	455.6	459.2
65°	22141.7	15971.9	2355.5	1293.0	923.9	660.9	552.9	477.3	434.0	414.2	415.9
67.5°	20674.0	14046.8	2018.8	1309.3	922.0	635.7	533.0	461.1	412.5	381.8	380.0
69°	18835.3	12119.9	1867.5	1266.0	878.8	603.3	507.8	443.0	396.2	363.8	361.9
70°	17353.2	10944.0	1768.5	1219.3	832.0	579.8	488.1	426.7	383.6	353.0	349.4
72.5°	12616.9	7171.1	1510.9	1048.2	686.1	486.2	421.4	374.5	342.2	324.2	320.5
75°	6304.8	3419.9	1226.4	850.0	525.9	389.0	345.8	313.3	297.1	293.6	291.7
77.5°	2071.0	1566.8	877.1	633.9	390.8	304.4	279.1	255.7	252.2	262.9	259.3
80°	1138.2	911.2	556.4	419.5	266.5	223.3	219.7	207.0	212.5	230.5	226.9
82.5°	579.8	473.6	343.9	252.2	180.1	160.3	174.7	167.5	174.7	190.8	189.1
85°	286.4	259.3	217.9	153.1	118.9	102.7	124.2	129.7	133.3	145.9	145.9
87.5°	165.6	153.1	115.3	72.0	59.4	54.0	72.0	70.3	82.8	90.0	88.3
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)