

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: P319849

Luminaire Tested: **GAN-SA5C-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319849
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-SA5C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 28095 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 279
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



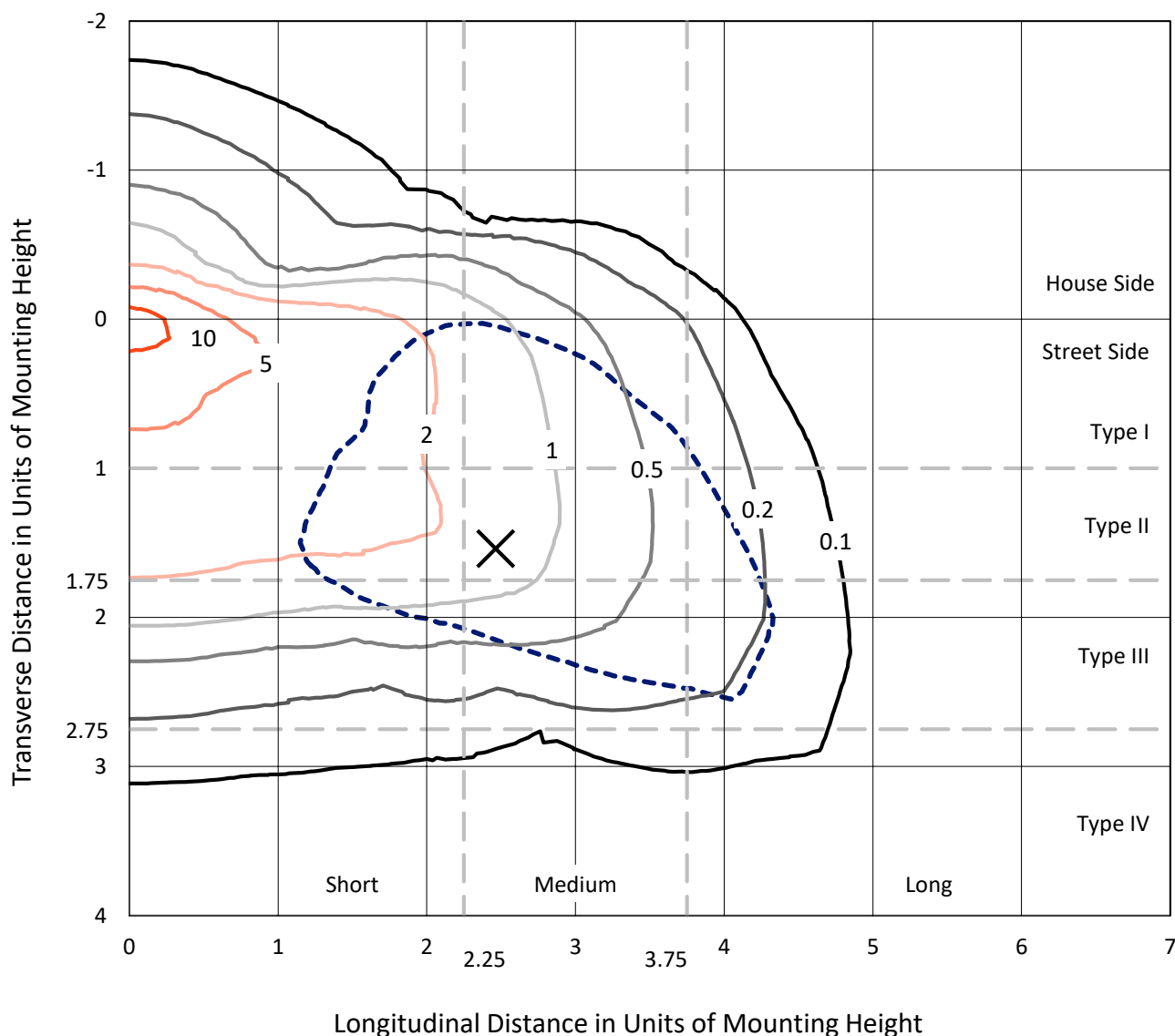
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

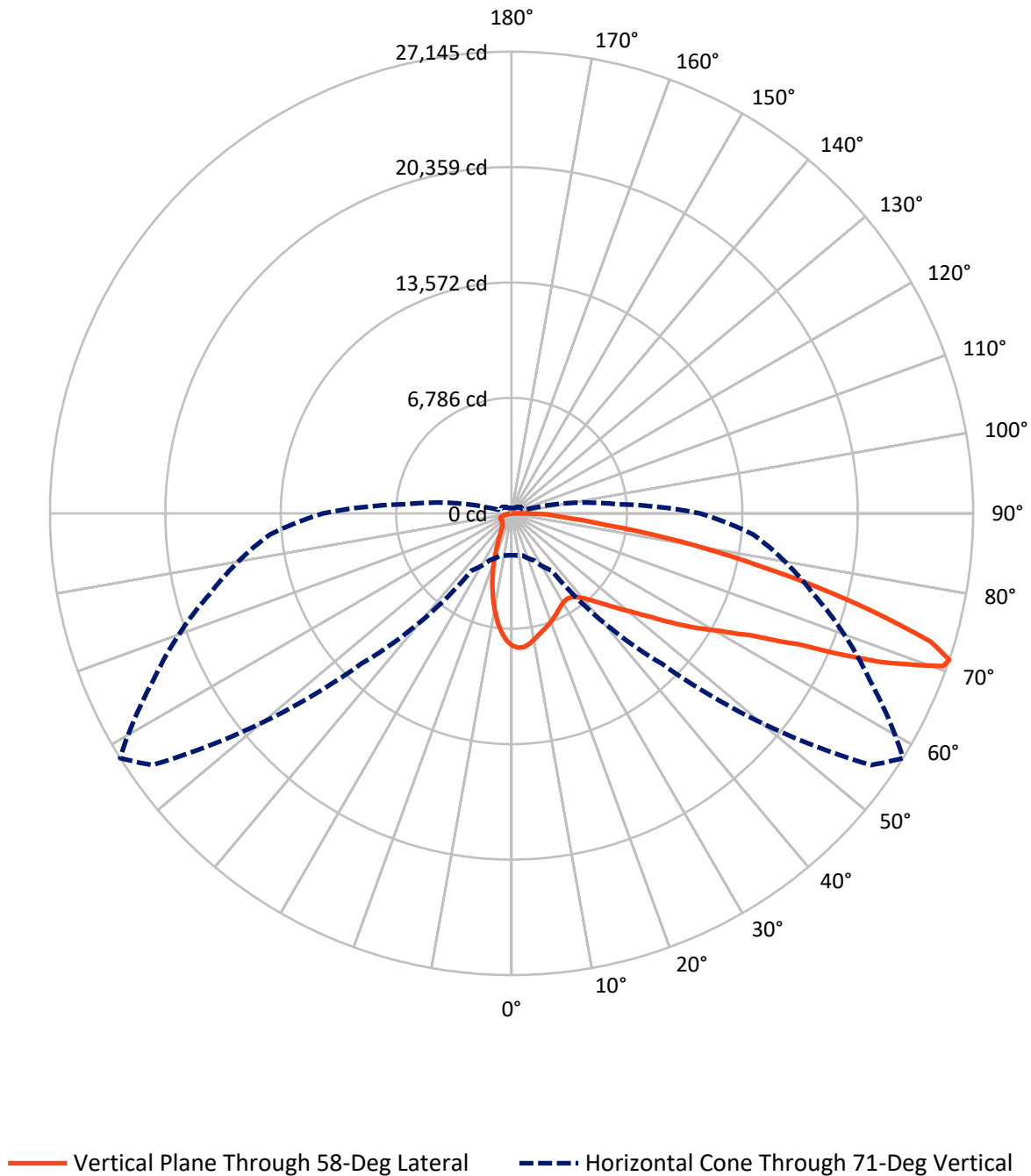
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	4200.4	0.0	4200.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	23894.6	0.0	23894.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	28095.0	0.0	28095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.5	2.4
10°-20°	1493.3	5.3
20°-30°	1897.8	6.8
30°-40°	2417.4	8.6
40°-50°	3428.0	12.2
50°-60°	5304.9	18.9
60°-70°	7222.0	25.7
70°-80°	4817.9	17.1
80°-90°	842.3	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°	28095.0	100.0
0°-180°	28095.0	100.0

Coefficient of Utilization



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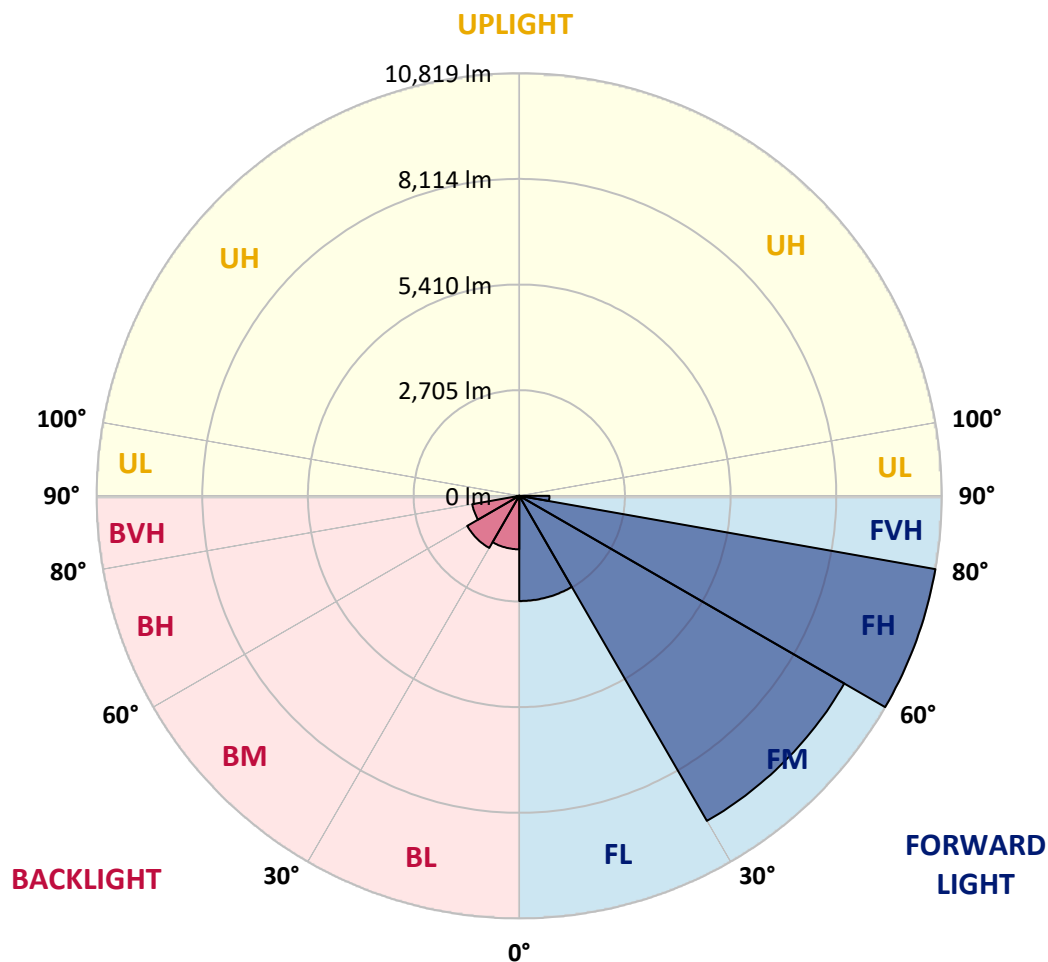
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2693.4	9.6			
FM	(30°-60°)	9609.8	34.2			
FH	(60°-80°)	10819.0	38.5			G4/12000
FVH	(80°-90°)	772.4	2.7			G5
BL	(0°-30°)	1369.2	4.9	B3/2500		
BM	(30°-60°)	1540.4	5.5	B2/2500		
BH	(60°-80°)	1220.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	70.0	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°	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2
2.5°	7990.7	7979.9	7983.8	7976.0	7957.4	7938.8	7911.4	7916.3	7878.1	7821.4	7750.9
5°	7840.0	7836.1	7865.4	7882.1	7895.8	7885.0	7877.2	7887.0	7831.2	7752.9	7630.5
7.5°	7523.9	7480.8	7518.0	7573.8	7626.6	7666.8	7719.6	7726.5	7691.2	7609.0	7448.5
10°	7074.7	7033.6	7088.4	7175.5	7281.2	7377.1	7483.7	7503.3	7510.2	7435.8	7241.0
12.5°	6608.8	6577.5	6632.3	6754.7	6929.8	7077.6	7247.9	7277.3	7337.9	7288.0	7049.2
15°	6191.9	6180.2	6246.7	6367.1	6568.7	6794.8	7040.4	7094.2	7197.0	7180.4	6899.5
17.5°	5831.8	5828.8	5879.7	6006.0	6229.1	6514.9	6833.9	6924.9	7077.6	7097.2	6776.2
20°	5563.6	5557.8	5593.0	5686.0	5915.9	6239.9	6610.8	6736.1	6956.3	7024.8	6649.0
22.5°	5419.8	5418.8	5419.8	5463.8	5651.7	5953.1	6393.5	6546.2	6837.8	6967.0	6508.0
25°	5395.3	5392.4	5370.8	5365.9	5472.6	5713.4	6178.2	6346.6	6725.3	6926.9	6374.0
27.5°	5458.9	5462.8	5434.5	5388.5	5410.0	5555.8	5991.3	6171.4	6635.3	6919.1	6281.0
30°	5591.0	5589.1	5564.6	5516.7	5474.6	5497.1	5858.2	6038.3	6574.6	6953.3	6217.4
32.5°	5736.9	5747.6	5742.7	5716.3	5653.7	5563.6	5818.1	5994.2	6557.0	7035.5	6190.0
35°	5912.0	5923.8	5959.0	5979.6	5906.2	5761.3	5904.2	6056.9	6607.9	7190.2	6234.0
37.5°	6078.4	6108.7	6207.6	6294.7	6232.1	6070.6	6133.2	6241.8	6765.4	7433.8	6352.4
40°	6270.2	6296.6	6458.1	6643.1	6633.3	6465.9	6502.2	6574.6	7043.4	7783.2	6566.8
42.5°	6459.1	6511.9	6745.8	7008.1	7083.5	6935.7	6993.4	7031.6	7434.8	8246.1	6940.6
45°	6710.6	6767.4	7092.3	7408.4	7584.5	7501.4	7593.4	7608.0	7927.1	8876.4	7483.7
47.5°	7091.3	7155.9	7534.6	7866.4	8135.5	8144.3	8296.0	8290.2	8541.7	9597.6	8167.8
50°	7684.4	7777.3	8087.6	8397.8	8724.7	8906.7	9109.3	9080.9	9278.6	10365.9	8955.6
52.5°	8461.4	8504.5	8734.5	8963.5	9369.6	9777.7	10068.4	10042.9	10114.4	11155.6	9850.1
55°	9266.9	9299.1	9394.1	9519.3	10065.4	10730.9	11345.5	11305.4	11124.3	11975.8	10733.8
57.5°	9991.1	10056.6	10122.2	10174.1	10766.1	11727.2	12652.0	12654.9	12220.4	12860.5	11646.9
60°	10103.6	10161.3	10594.9	11004.0	11965.0	13056.2	14050.5	14021.1	13354.7	13820.5	12664.7
62.5°	8931.2	9061.3	9785.5	10873.8	13119.8	15487.2	15834.6	15798.4	14711.1	15003.7	13849.9
65°	6400.4	6548.2	7422.1	9057.4	12560.0	18165.7	19054.3	18567.0	16560.7	16459.0	15237.6
67.5°	3692.5	3727.7	4106.4	5419.8	9563.4	18305.7	23966.2	23284.1	19433.1	18109.9	15916.8
70°	2730.4	2729.5	2819.5	3335.2	5175.1	14940.1	26302.2	26913.9	22457.1	18653.1	14956.7
71°	2469.1	2472.1	2572.9	3035.8	4098.6	12505.2	25806.1	27144.9	23253.7	18384.9	14261.9
72.5°	2111.9	2121.7	2261.7	2722.6	3447.8	8623.9	23668.7	25759.1	23631.5	17723.4	13174.6
75°	1602.1	1624.6	1818.3	2294.9	3151.3	4373.6	17371.1	20569.3	20993.1	15638.8	9789.4
77.5°	1143.1	1168.5	1387.7	1929.9	2995.7	3296.1	11633.2	15003.7	15449.0	10022.4	4415.7
80°	722.2	752.6	918.0	1535.5	2814.6	3129.7	7310.5	10085.0	8424.2	3207.0	1123.5
82.5°	423.8	447.2	569.6	1003.1	2298.9	3014.2	4301.2	5590.1	3278.5	968.9	510.9
85°	245.6	256.4	355.3	639.1	1669.6	2844.9	3160.1	3124.8	1423.0	473.7	241.7
87.5°	114.5	127.2	210.4	333.7	926.8	2062.0	2497.5	2157.9	884.7	222.2	113.5
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°	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2	7784.2
2.5°	7716.7	7700.0	7630.5	7568.9	7504.3	7420.1	7327.2	7315.4	7258.7	7269.4	7249.8
5°	7564.0	7521.9	7354.6	7202.9	7023.8	6863.3	6689.1	6608.8	6493.4	6485.5	6456.2
7.5°	7345.8	7267.5	7008.1	6720.4	6432.7	6158.7	5887.6	5709.5	5527.4	5450.1	5443.3
10°	7100.1	6967.0	6585.3	6159.6	5744.7	5344.4	4956.9	4670.1	4411.8	4289.4	4284.5
12.5°	6867.2	6670.5	6146.9	5567.5	4999.9	4481.2	3949.8	3573.1	3249.1	3140.5	3094.5
15°	6669.5	6392.6	5720.2	4979.4	4290.4	3570.1	2965.3	2569.0	2269.5	2165.8	2146.2
17.5°	6477.7	6121.5	5282.8	4385.3	3552.5	2760.8	2155.0	1860.4	1700.9	1658.8	1657.8
20°	6286.9	5842.5	4825.7	3777.6	2839.1	2065.0	1656.9	1524.7	1470.9	1466.0	1458.2
22.5°	6070.6	5547.0	4345.2	3167.9	2215.7	1623.6	1408.3	1355.4	1348.6	1366.2	1366.2
25°	5868.0	5253.4	3857.8	2570.9	1723.4	1354.5	1257.6	1246.8	1265.4	1296.7	1299.6
27.5°	5679.1	4970.6	3382.2	2040.5	1380.9	1193.0	1152.9	1165.6	1198.8	1235.1	1236.0
30°	5523.5	4703.4	2920.3	1607.9	1166.6	1072.6	1065.8	1091.2	1127.4	1155.8	1162.6
32.5°	5403.1	4475.4	2474.0	1292.8	1026.6	982.6	988.4	1010.0	1032.5	1048.1	1058.9
35°	5347.4	4279.6	2062.0	1090.2	937.5	913.1	920.9	932.7	942.4	954.2	963.0
37.5°	5357.1	4128.0	1694.0	964.0	877.9	865.1	865.1	865.1	865.1	871.0	872.0
40°	5448.2	4040.9	1394.6	883.7	837.7	824.0	813.3	803.5	795.6	799.6	797.6
42.5°	5681.1	4033.0	1175.4	832.8	805.4	782.9	761.4	747.7	737.9	741.8	743.8
45°	6076.4	4130.9	1027.6	796.6	775.1	740.8	713.4	698.8	691.9	704.6	706.6
47.5°	6588.3	4344.2	937.5	770.2	746.7	701.7	672.3	658.6	660.6	679.2	684.1
50°	7247.9	4690.7	894.5	753.6	727.1	668.4	638.1	626.3	632.2	658.6	664.5
52.5°	7972.1	5189.8	899.4	748.7	714.4	644.0	611.7	598.0	607.7	632.2	637.1
55°	8807.9	5789.7	980.6	755.5	695.8	628.3	590.1	566.6	574.5	597.0	600.9
57.5°	9736.6	6476.7	1144.0	753.6	672.3	613.6	567.6	532.4	538.3	552.0	555.9
60°	10703.5	7306.6	1397.5	759.4	661.6	596.0	537.3	493.2	491.3	503.0	505.0
62.5°	11864.2	8266.7	1687.2	763.3	668.4	573.5	497.2	454.1	448.2	451.2	453.1
65°	13060.1	8961.5	1578.6	747.7	689.9	554.9	461.9	415.9	405.2	403.2	404.2
67.5°	13097.3	8216.8	1106.9	716.4	698.8	545.1	435.5	383.6	366.0	359.2	358.2
70°	11745.8	6675.4	862.2	683.1	663.5	529.5	411.0	357.2	330.8	320.0	319.0
71°	11086.2	6145.0	817.2	666.5	637.1	513.8	400.3	345.5	318.1	306.3	304.4
72.5°	10051.7	5508.8	762.4	640.0	586.2	473.7	379.7	328.8	300.4	286.7	283.8
75°	7213.6	3602.4	654.7	570.6	485.4	377.8	332.7	295.6	271.1	254.4	252.5
77.5°	2779.4	1433.7	495.2	474.6	371.9	295.6	274.0	255.4	237.8	221.2	220.2
80°	859.3	641.0	361.1	357.2	269.1	220.2	213.3	208.5	201.6	184.0	180.1
82.5°	459.0	368.0	248.6	231.0	176.2	146.8	154.6	156.6	157.6	139.0	137.0
85°	219.2	194.8	139.9	131.1	102.8	82.2	94.9	102.8	103.7	85.1	79.3
87.5°	104.7	101.8	65.6	49.9	38.2	27.4	33.3	41.1	45.0	32.3	28.4
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)