

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: P383139

Luminaire Tested: **GAN-SA4D-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383139
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-SA4D-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 29159.3 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

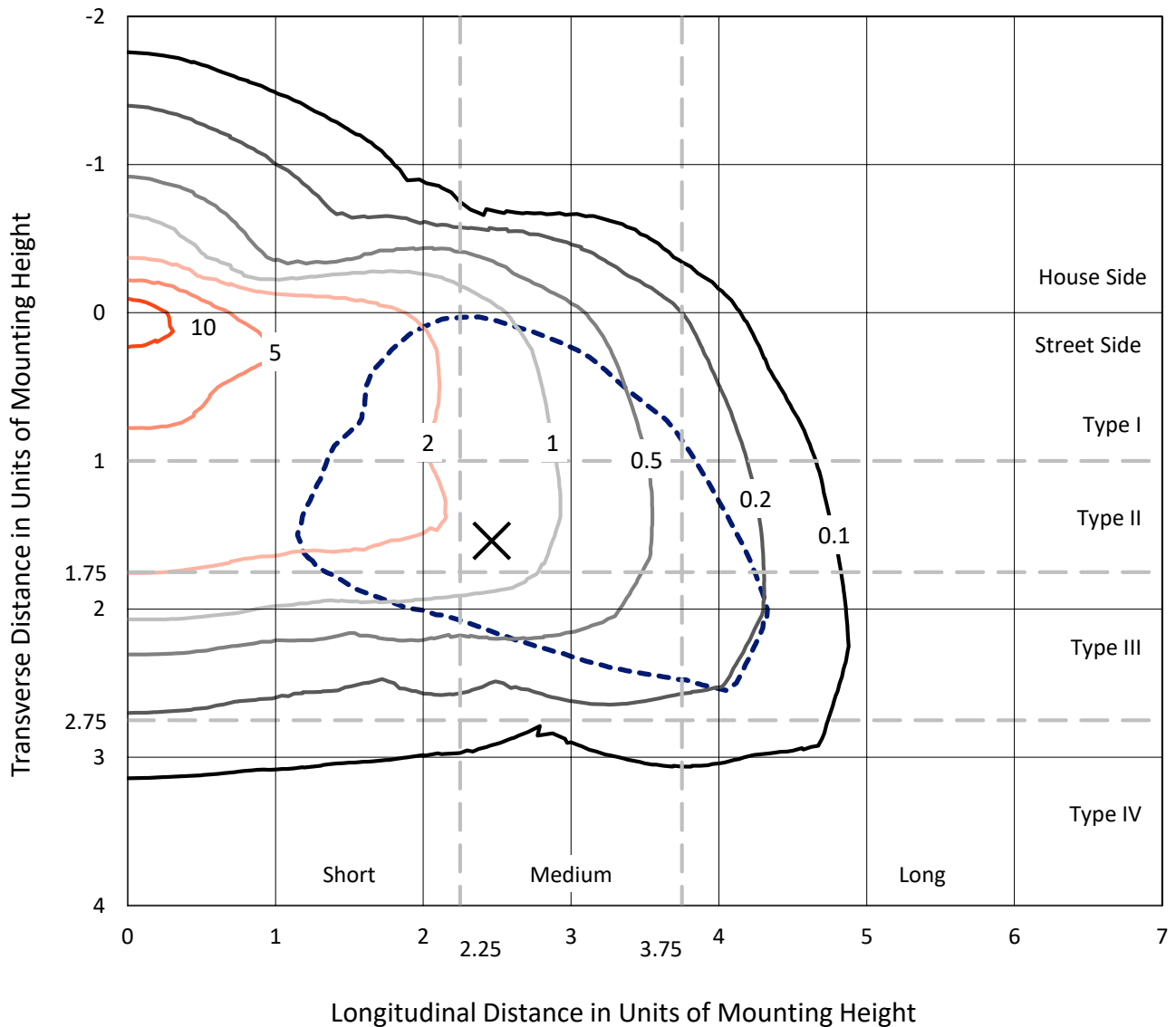
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

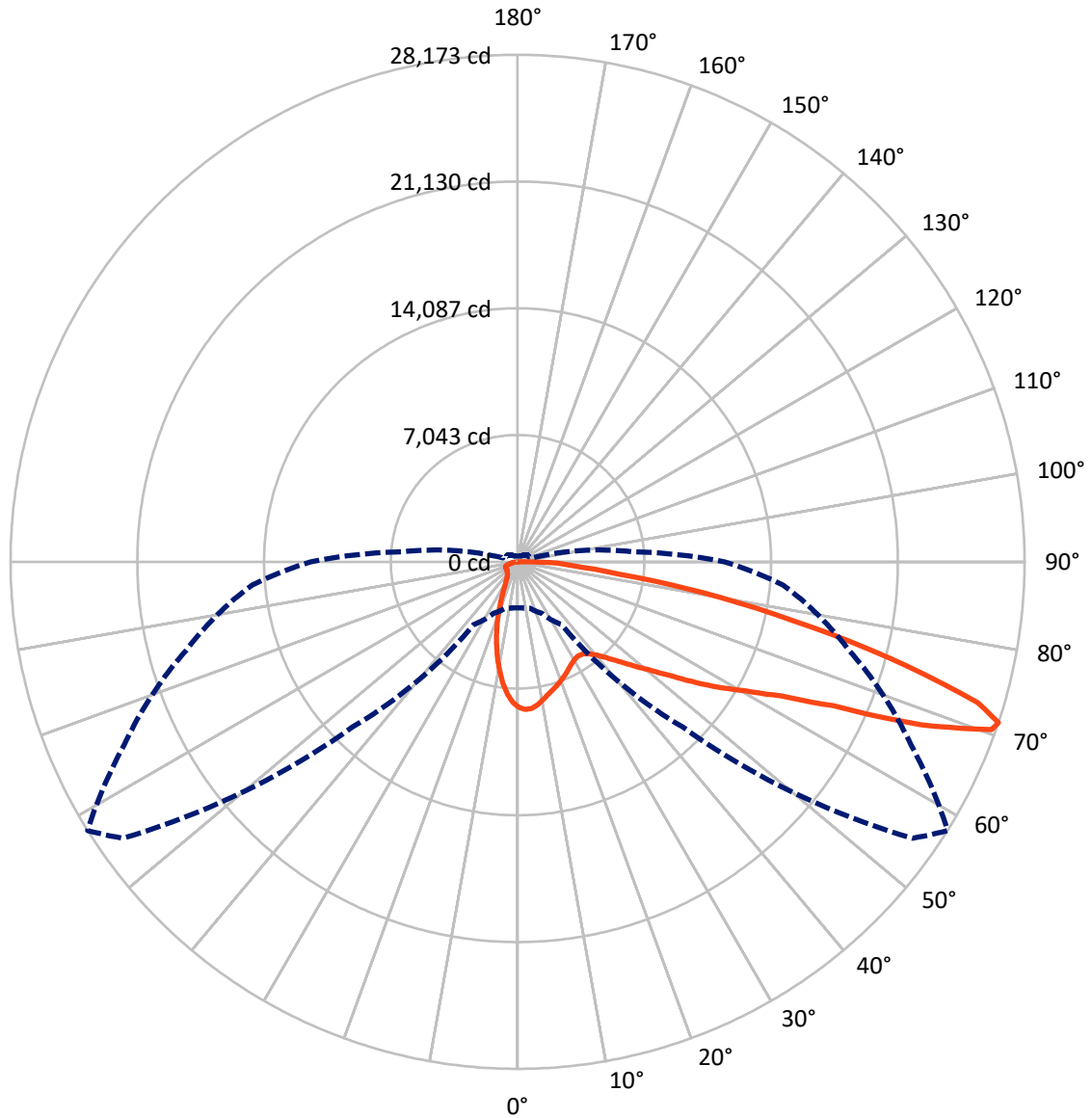
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	4359.5	0.0	4359.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	24799.8	0.0	24799.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	29159.3	0.0	29159.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.0	2.4
10°-20°	1549.8	5.3
20°-30°	1969.7	6.8
30°-40°	2509.0	8.6
40°-50°	3557.8	12.2
50°-60°	5505.9	18.9
60°-70°	7495.5	25.7
70°-80°	5000.4	17.1
80°-90°	874.3	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°	29159.3	100.0
0°-180°	29159.3	100.0

Coefficient of Utilization

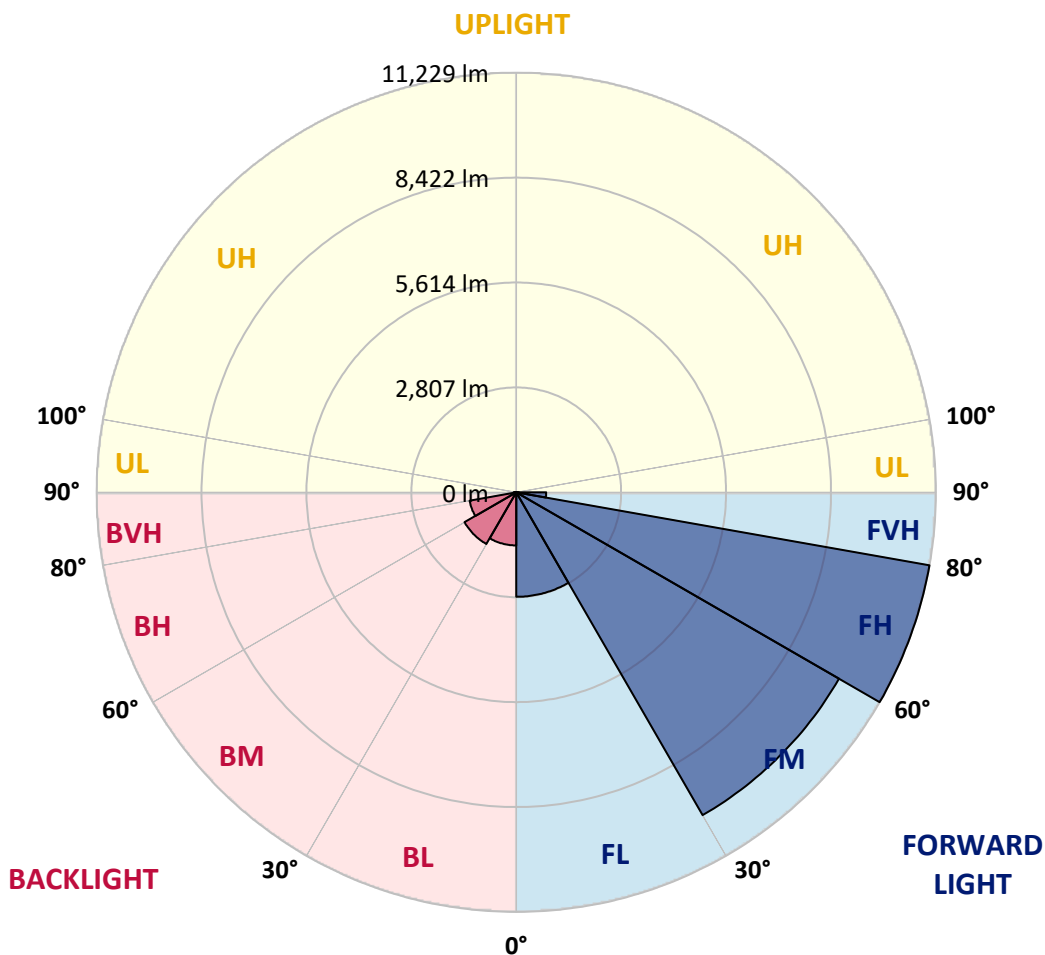


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2795.4	9.6			
FM (30°-60°)	9973.9	34.2			
FH (60°-80°)	11228.9	38.5			G4/12000
FVH (80°-90°)	801.6	2.7			G5
BL (0°-30°)	1421.1	4.9	B3/2500		
BM (30°-60°)	1598.8	5.5	B2/2500		
BH (60°-80°)	1267.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	72.6	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°	8079.0	8079.0	8079.0	8079.0	8079.0	8079.0	8079.0	8079.0	8079.0	8079.0	8079.0
2.5°	8293.4	8282.2	8286.3	8278.2	8258.8	8239.5	8211.1	8216.2	8176.6	8117.7	8044.6
5°	8137.0	8132.9	8163.3	8180.7	8194.8	8183.7	8175.5	8185.7	8127.8	8046.6	7919.6
7.5°	7808.9	7764.2	7802.8	7860.7	7915.5	7957.2	8012.1	8019.1	7982.6	7897.3	7730.7
10°	7342.6	7300.0	7356.9	7447.3	7557.0	7656.6	7767.2	7787.6	7794.6	7717.5	7515.4
12.5°	6859.2	6826.7	6883.6	7010.5	7192.4	7345.7	7522.4	7552.9	7615.9	7564.1	7316.3
15°	6426.5	6414.3	6483.4	6608.3	6817.5	7052.2	7307.2	7363.0	7469.6	7452.4	7160.9
17.5°	6052.7	6049.7	6102.5	6233.5	6465.1	6761.6	7092.8	7187.3	7345.7	7366.0	7032.9
20°	5774.4	5768.3	5804.8	5901.4	6140.0	6476.3	6861.2	6991.3	7219.8	7290.9	6900.8
22.5°	5625.1	5624.0	5625.1	5670.8	5865.8	6178.7	6635.7	6794.1	7096.9	7231.0	6754.6
25°	5599.7	5596.6	5574.3	5569.3	5679.9	5929.8	6412.3	6587.0	6980.1	7189.3	6615.4
27.5°	5665.7	5669.8	5640.3	5592.5	5614.9	5766.3	6218.3	6405.1	6886.7	7181.2	6518.9
30°	5802.8	5800.8	5775.4	5725.7	5682.0	5705.4	6080.1	6267.0	6823.7	7216.7	6452.9
32.5°	5954.2	5965.4	5960.2	5932.8	5867.8	5774.4	6038.5	6221.3	6805.3	7302.0	6424.4
35°	6136.0	6148.2	6184.7	6206.1	6129.9	5979.6	6127.9	6286.4	6858.1	7462.5	6470.2
37.5°	6308.6	6340.1	6442.8	6533.1	6468.1	6300.5	6365.5	6478.3	7021.7	7715.4	6593.0
40°	6507.8	6535.2	6702.8	6894.8	6884.6	6710.9	6748.5	6823.7	7310.1	8078.1	6815.5
42.5°	6703.8	6758.7	7001.4	7273.6	7351.8	7198.4	7258.3	7298.0	7716.5	8558.5	7203.6
45°	6964.8	7023.8	7361.0	7689.0	7871.9	7785.5	7881.0	7896.3	8227.3	9212.6	7767.2
47.5°	7360.0	7426.9	7820.1	8164.4	8443.7	8452.9	8610.3	8604.2	8865.3	9961.2	8477.3
50°	7975.4	8072.0	8394.0	8715.9	9055.2	9244.1	9454.4	9424.9	9630.1	10758.5	9294.9
52.5°	8782.0	8826.7	9065.4	9303.0	9724.5	10148.1	10449.8	10423.4	10497.5	11578.2	10223.3
55°	9617.9	9651.4	9749.9	9880.0	10446.7	11137.4	11775.3	11733.7	11545.8	12429.5	11140.5
57.5°	10369.5	10437.6	10505.6	10559.5	11174.0	12171.4	13131.3	13134.4	12683.4	13347.7	12088.1
60°	10486.3	10546.2	10996.3	11420.8	12418.3	13550.8	14582.7	14552.3	13860.6	14344.1	13144.5
62.5°	9269.6	9404.6	10156.2	11285.7	13616.8	16073.9	16434.5	16396.8	15268.3	15572.1	14374.5
65°	6642.9	6796.2	7703.2	9400.5	13035.8	18853.9	19776.2	19270.4	17188.1	17082.4	15814.9
67.5°	3832.3	3868.9	4262.0	5625.1	9925.6	18999.1	24874.1	24166.1	20169.2	18796.0	16519.8
70°	2833.9	2832.8	2926.3	3461.6	5371.1	15506.1	27298.6	27933.5	23307.9	19359.7	15523.3
71°	2562.7	2565.8	2670.4	3150.8	4253.8	12979.0	26783.7	28173.2	24134.6	19081.4	14802.2
72.5°	2191.9	2202.1	2347.3	2825.8	3578.4	8950.6	24565.3	26734.9	24526.7	18394.8	13673.7
75°	1662.7	1686.1	1887.2	2381.9	3270.7	4539.2	18029.1	21348.5	21788.3	16231.3	10160.3
77.5°	1186.3	1212.8	1440.3	2003.0	3109.1	3420.9	12073.9	15572.1	16034.3	10402.0	4582.9
80°	749.6	781.1	952.8	1593.7	2921.2	3248.3	7587.5	10467.1	8743.3	3328.5	1166.0
82.5°	439.8	464.2	591.2	1041.1	2386.0	3128.4	4464.1	5801.9	3402.7	1005.6	530.2
85°	255.0	266.1	368.7	663.3	1732.9	2952.7	3279.8	3243.2	1476.9	491.6	250.9
87.5°	118.9	132.0	218.4	346.3	961.9	2140.1	2592.1	2239.7	918.2	230.6	117.8
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°	8079.0	8079.0	8079.0	8079.0	8079.0	8079.0	8079.0	8079.0	8079.0	8079.0	8079.0
2.5°	8009.0	7991.7	7919.6	7855.6	7788.6	7701.2	7604.7	7592.6	7533.6	7544.8	7524.5
5°	7850.5	7806.8	7633.2	7475.8	7289.8	7123.3	6942.5	6859.2	6739.4	6731.2	6700.7
7.5°	7624.1	7542.7	7273.6	6975.0	6676.4	6392.0	6110.6	5925.8	5736.8	5656.5	5649.5
10°	7369.1	7231.0	6834.9	6392.9	5962.3	5546.9	5144.7	4847.0	4578.9	4452.0	4446.8
12.5°	7127.4	6923.2	6379.8	5778.5	5189.4	4651.0	4099.5	3708.4	3372.2	3259.5	3211.7
15°	6922.1	6634.8	5936.9	5168.0	4453.0	3705.3	3077.6	2666.3	2355.5	2247.8	2227.5
17.5°	6723.1	6353.3	5482.9	4551.4	3687.1	2865.3	2236.6	1930.9	1765.4	1721.7	1720.7
20°	6525.0	6063.9	5008.6	3920.7	2946.6	2143.2	1719.6	1582.5	1526.6	1521.6	1513.4
22.5°	6300.5	5757.2	4509.8	3287.9	2299.6	1685.1	1461.6	1406.8	1399.7	1417.9	1417.9
25°	6090.3	5452.4	4004.0	2668.3	1788.7	1405.8	1305.2	1294.0	1313.3	1345.8	1348.9
27.5°	5894.3	5158.9	3510.4	2117.8	1433.2	1238.2	1196.5	1209.7	1244.3	1281.8	1282.8
30°	5732.7	4881.6	3030.9	1668.9	1210.7	1113.2	1106.1	1132.6	1170.1	1199.6	1206.7
32.5°	5607.8	4644.9	2567.7	1341.8	1065.5	1019.8	1025.9	1048.3	1071.6	1087.9	1099.0
35°	5549.9	4441.8	2140.1	1131.6	973.1	947.7	955.8	968.0	978.1	990.3	999.5
37.5°	5560.0	4284.4	1758.2	1000.5	911.1	897.9	897.9	897.9	897.9	904.0	905.0
40°	5654.6	4193.9	1447.4	917.2	869.5	855.3	844.1	833.9	825.8	829.8	827.8
42.5°	5896.3	4185.8	1219.9	864.4	836.0	812.6	790.2	776.0	765.8	769.9	772.0
45°	6306.7	4287.4	1066.5	826.8	804.5	768.9	740.5	725.2	718.1	731.4	733.3
47.5°	6837.8	4508.8	973.1	799.4	775.0	728.3	697.8	683.6	685.6	704.9	710.0
50°	7522.4	4868.4	928.4	782.1	754.6	693.7	662.2	650.0	656.2	683.6	689.7
52.5°	8274.1	5386.4	933.4	777.0	741.5	668.4	634.8	620.6	630.8	656.2	661.2
55°	9141.6	6009.0	1017.7	784.2	722.1	652.1	612.5	588.1	596.2	619.6	623.7
57.5°	10105.4	6722.0	1187.4	782.1	697.8	636.9	589.1	552.6	558.6	572.9	576.9
60°	11109.0	7583.4	1450.4	788.2	686.6	618.5	557.6	511.9	509.9	522.0	524.1
62.5°	12313.7	8579.8	1751.1	792.3	693.7	595.3	516.0	471.3	465.2	468.3	470.2
65°	13554.9	9301.0	1638.4	776.0	716.1	575.9	479.5	431.7	420.5	418.5	419.5
67.5°	13593.4	8528.0	1148.8	743.5	725.2	565.7	452.0	398.1	379.9	372.8	371.8
70°	12190.7	6928.3	894.8	709.0	688.7	549.5	426.6	370.8	343.3	332.1	331.2
71°	11506.1	6377.7	848.2	691.7	661.2	533.2	415.5	358.6	330.1	317.9	315.9
72.5°	10432.5	5717.6	791.3	664.3	608.4	491.6	394.1	341.3	311.8	297.6	294.6
75°	7486.9	3738.9	679.6	592.2	503.8	392.1	345.3	306.8	281.3	264.1	262.0
77.5°	2884.6	1488.1	513.9	492.6	385.9	306.8	284.4	265.1	246.9	229.5	228.5
80°	891.8	665.3	374.8	370.8	279.3	228.5	221.4	216.3	209.2	191.0	186.9
82.5°	476.4	381.9	258.0	239.7	182.9	152.4	160.5	162.6	163.5	144.2	142.2
85°	227.5	202.1	145.2	136.1	106.7	85.3	98.6	106.7	107.7	88.4	82.3
87.5°	108.7	105.6	68.1	51.8	39.6	28.4	34.6	42.7	46.8	33.5	29.4
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)