

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: P319712

Luminaire Tested: **GAN-SA8A-750-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319712
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-SA8A-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA 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: 37350 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

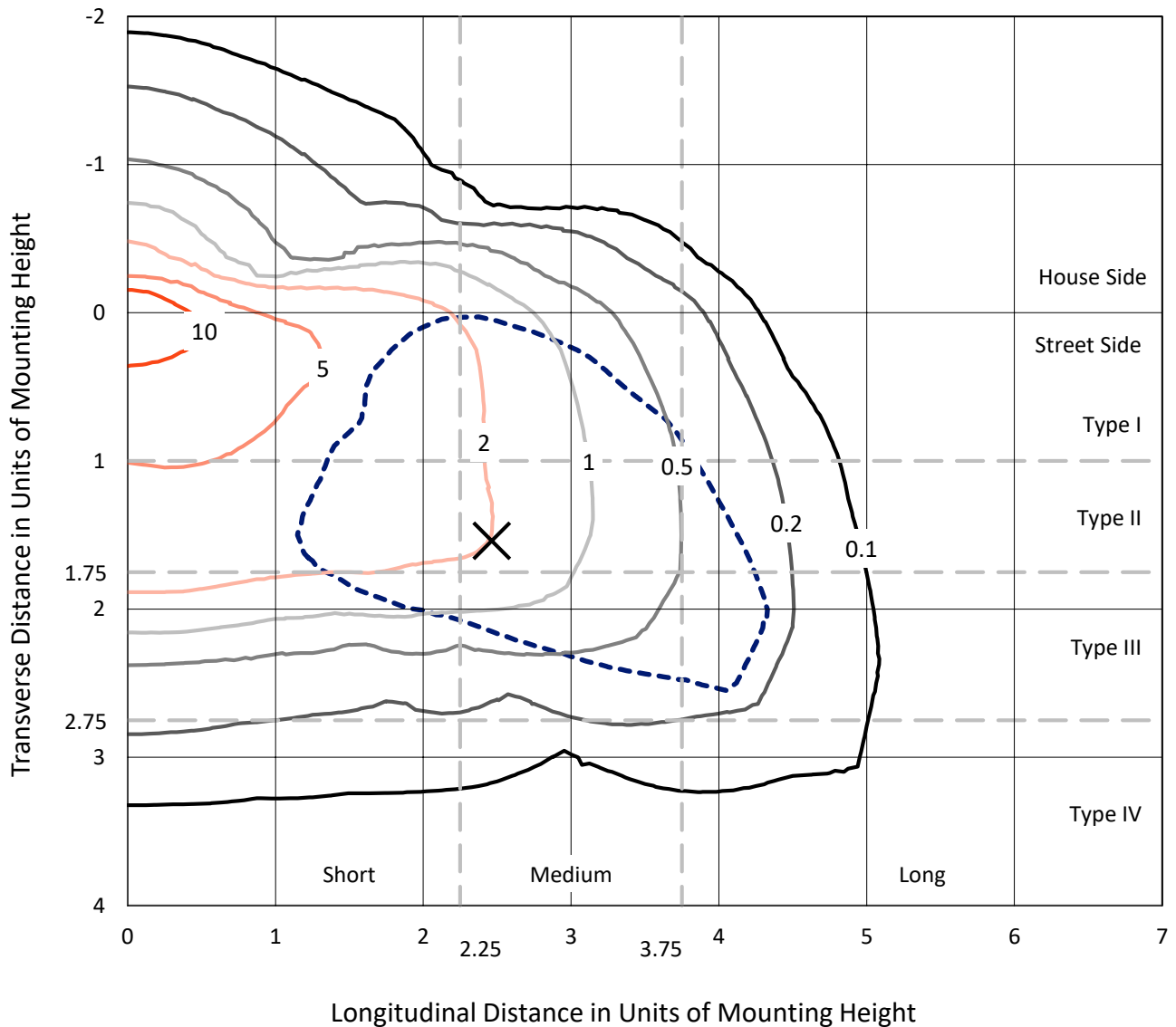
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

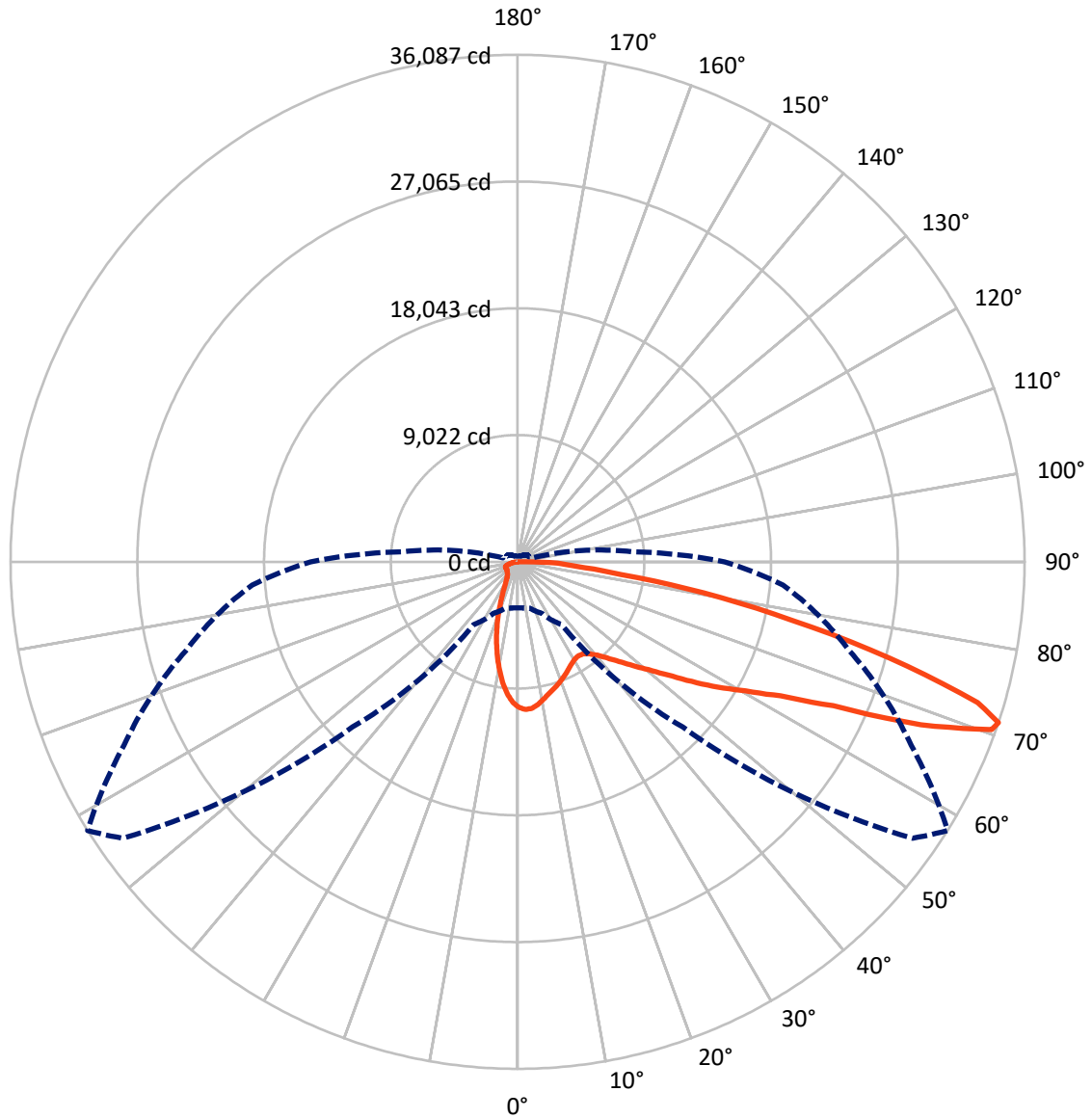
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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	5584.1	0.0	5584.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	31765.9	0.0	31765.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	37350.0	0.0	37350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.8	2.4
10°-20°	1985.2	5.3
20°-30°	2522.9	6.8
30°-40°	3213.7	8.6
40°-50°	4557.2	12.2
50°-60°	7052.4	18.9
60°-70°	9601.0	25.7
70°-80°	6405.0	17.1
80°-90°	1119.8	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°	37350.0	100.0
0°-180°	37350.0	100.0

Coefficient of Utilization

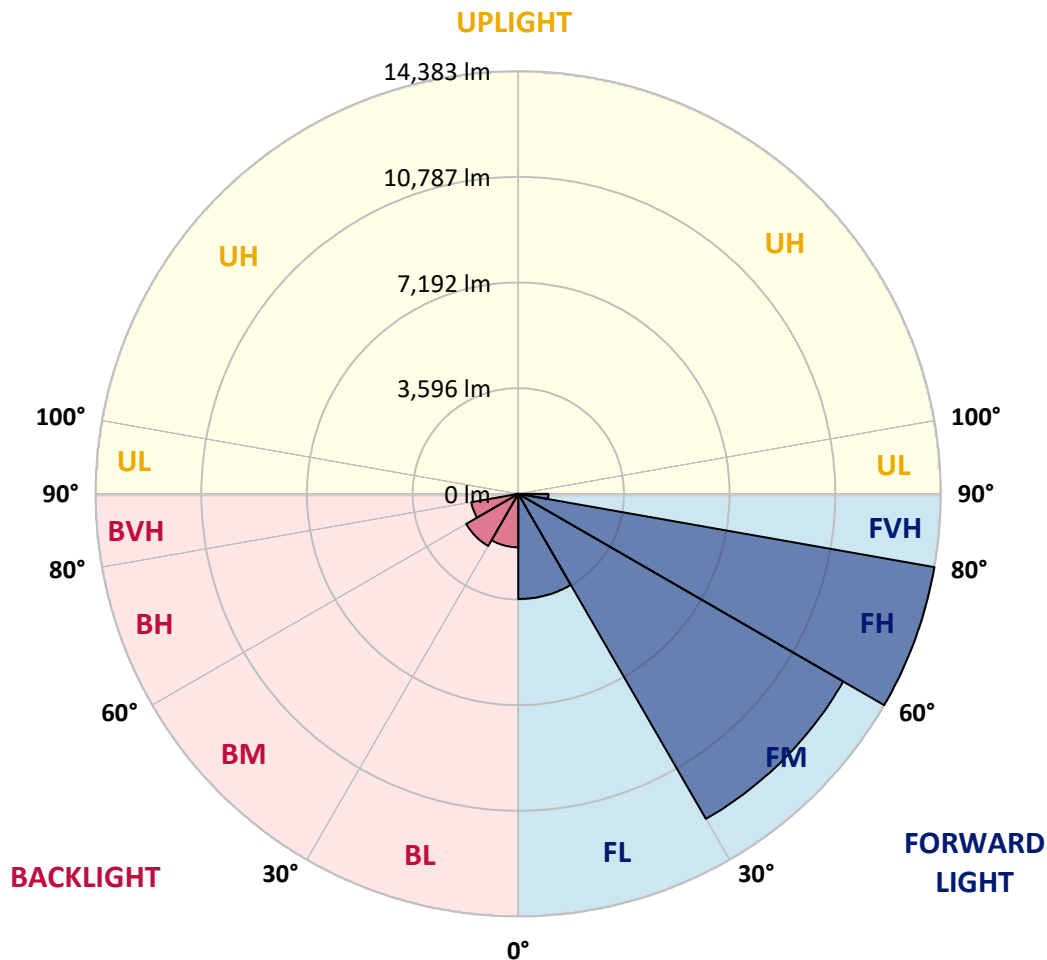


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3580.6	9.6			
FM (30°-60°)	12775.5	34.2			
FH (60°-80°)	14383.0	38.5			G5
FVH (80°-90°)	1026.8	2.7			G5
BL (0°-30°)	1820.2	4.9	B3/2500		
BM (30°-60°)	2047.8	5.5	B2/2500		
BH (60°-80°)	1623.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	93.0	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°	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4
2.5°	10623.0	10608.7	10613.9	10603.5	10578.7	10554.0	10517.6	10524.1	10473.3	10397.9	10304.2
5°	10422.6	10417.4	10456.4	10478.6	10496.8	10482.5	10472.0	10485.1	10410.9	10306.8	10144.2
7.5°	10002.4	9945.1	9994.6	10068.7	10139.0	10192.3	10262.6	10271.7	10224.8	10115.6	9902.2
10°	9405.2	9350.6	9423.4	9539.2	9679.7	9807.2	9949.0	9975.0	9984.2	9885.3	9626.4
12.5°	8785.9	8744.3	8817.1	8979.8	9212.6	9409.1	9635.5	9674.5	9755.2	9688.8	9371.4
15°	8231.7	8216.0	8304.5	8464.5	8732.6	9033.1	9359.7	9431.2	9567.8	9545.7	9172.3
17.5°	7752.9	7749.0	7816.6	7984.5	8281.1	8661.0	9085.1	9206.1	9409.1	9435.1	9008.4
20°	7396.4	7388.6	7435.4	7559.0	7864.8	8295.4	8788.5	8955.0	9247.8	9338.8	8839.2
22.5°	7205.1	7203.8	7205.1	7263.7	7513.5	7914.2	8499.7	8702.6	9090.3	9262.1	8651.9
25°	7172.6	7168.7	7140.1	7133.6	7275.4	7595.5	8213.4	8437.2	8940.7	9208.7	8473.7
27.5°	7257.2	7262.4	7224.7	7163.5	7192.1	7386.0	7964.9	8204.3	8821.0	9198.3	8350.1
30°	7432.8	7430.2	7397.7	7333.9	7278.0	7307.9	7788.0	8027.4	8740.4	9243.9	8265.5
32.5°	7626.7	7641.0	7634.5	7599.4	7516.1	7396.4	7734.7	7968.9	8716.9	9353.2	8229.1
35°	7859.6	7875.2	7922.0	7949.3	7851.8	7659.2	7849.2	8052.1	8784.6	9558.7	8287.6
37.5°	8080.7	8121.1	8252.5	8368.3	8285.0	8070.3	8153.6	8298.0	8994.1	9882.7	8445.0
40°	8335.7	8370.9	8585.5	8831.4	8818.4	8596.0	8644.1	8740.4	9363.6	10347.1	8730.0
42.5°	8586.8	8657.1	8968.0	9316.7	9416.9	9220.4	9297.2	9347.9	9884.0	10962.5	9227.0
45°	8921.2	8996.7	9428.6	9848.8	10083.0	9972.4	10094.7	10114.3	10538.4	11800.4	9949.0
47.5°	9427.3	9513.2	10016.7	10457.7	10815.5	10827.2	11028.9	11021.1	11355.4	12759.3	10858.5
50°	10215.7	10339.3	10751.8	11164.2	11598.7	11840.7	12110.1	12072.3	12335.1	13780.6	11905.8
52.5°	11248.8	11306.0	11611.8	11916.2	12456.1	12998.7	13385.1	13351.2	13446.2	14830.5	13094.9
55°	12319.5	12362.5	12488.7	12655.2	13381.2	14265.9	15082.9	15029.6	14788.9	15920.8	14269.8
57.5°	13282.3	13369.5	13456.6	13525.6	14312.7	15590.3	16819.8	16823.7	16246.0	17096.9	15483.6
60°	13431.9	13508.7	14085.0	14628.9	15906.5	17357.1	18679.0	18640.0	17753.9	18373.2	16836.7
62.5°	11873.3	12046.3	13009.1	14455.8	17441.7	20588.9	21050.8	21002.6	19557.2	19946.2	18412.3
65°	8508.8	8705.2	9867.1	12041.1	16697.5	24149.8	25331.2	24683.3	22016.1	21880.8	20257.1
67.5°	4908.8	4955.6	5459.2	7205.1	12713.7	24335.9	31861.1	30954.3	25834.7	24075.7	21160.1
70°	3629.9	3628.6	3748.3	4433.9	6879.9	19861.6	34966.7	35779.8	29854.9	24797.8	19883.7
71°	3282.5	3286.4	3420.4	4035.8	5448.7	16624.6	34307.0	36086.9	30913.9	24441.3	18960.0
72.5°	2807.6	2820.6	3006.7	3619.5	4583.6	11464.7	31465.6	34244.6	31416.1	23561.8	17514.6
75°	2129.8	2159.7	2417.3	3050.9	4189.3	5814.3	23093.4	27345.2	27908.5	20790.6	13014.3
77.5°	1519.6	1553.4	1844.9	2565.6	3982.5	4381.9	15465.4	19946.2	20538.2	13323.9	5870.3
80°	960.2	1000.5	1220.4	2041.3	3741.8	4160.7	9718.7	13407.2	11199.3	4263.5	1493.6
82.5°	563.3	594.6	757.2	1333.6	3056.1	4007.2	5718.1	7431.5	4358.5	1288.0	679.1
85°	326.6	340.9	472.3	849.6	2219.6	3782.1	4201.0	4154.2	1891.7	629.7	321.4
87.5°	152.2	169.1	279.7	443.7	1232.1	2741.3	3320.2	2868.8	1176.1	295.3	150.9
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°	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4	10348.4
2.5°	10258.7	10236.6	10144.2	10062.2	9976.4	9864.5	9740.9	9725.3	9649.8	9664.1	9638.1
5°	10055.7	9999.8	9777.3	9575.6	9337.5	9124.2	8892.6	8785.9	8632.4	8622.0	8582.9
7.5°	9765.6	9661.5	9316.7	8934.2	8551.7	8187.4	7827.0	7590.2	7348.3	7245.5	7236.4
10°	9439.0	9262.1	8754.7	8188.7	7637.1	7105.0	6589.8	6208.5	5865.1	5702.4	5695.9
12.5°	9129.4	8867.9	8171.8	7401.6	6647.0	5957.4	5251.0	4750.1	4319.4	4175.0	4113.9
15°	8866.6	8498.4	7604.6	6619.7	5703.7	4746.2	3942.1	3415.2	3017.1	2879.2	2853.2
17.5°	8611.6	8138.0	7023.0	5829.9	4722.8	3670.2	2864.9	2473.3	2261.2	2205.3	2204.0
20°	8357.9	7767.2	6415.4	5022.0	3774.3	2745.2	2202.7	2027.0	1955.5	1949.0	1938.5
22.5°	8070.3	7374.3	5776.6	4211.5	2945.5	2158.4	1872.2	1801.9	1792.8	1816.2	1816.2
25°	7801.0	6984.0	5128.7	3417.8	2291.1	1800.6	1671.8	1657.5	1682.2	1723.9	1727.8
27.5°	7549.9	6608.0	4496.4	2712.7	1835.8	1586.0	1532.6	1549.5	1593.8	1641.9	1643.2
30°	7343.1	6252.8	3882.3	2137.6	1550.8	1425.9	1416.8	1450.7	1498.8	1536.5	1545.6
32.5°	7183.0	5949.6	3289.0	1718.7	1364.8	1306.2	1314.0	1342.7	1372.6	1393.4	1407.7
35°	7108.9	5689.4	2741.3	1449.4	1246.4	1213.9	1224.3	1239.9	1252.9	1268.5	1280.2
37.5°	7121.9	5487.8	2252.1	1281.5	1167.0	1150.1	1150.1	1150.1	1150.1	1157.9	1159.2
40°	7242.9	5372.0	1854.0	1174.8	1113.7	1095.5	1081.2	1068.2	1057.7	1062.9	1060.3
42.5°	7552.5	5361.6	1562.5	1107.2	1070.8	1040.8	1012.2	994.0	981.0	986.2	988.8
45°	8078.1	5491.7	1366.1	1059.0	1030.4	984.9	948.5	928.9	919.8	936.7	939.3
47.5°	8758.6	5775.3	1246.4	1023.9	992.7	932.8	893.8	875.6	878.2	902.9	909.4
50°	9635.5	6235.9	1189.1	1001.8	966.7	888.6	848.3	832.7	840.5	875.6	883.4
52.5°	10598.2	6899.4	1195.7	995.3	949.8	856.1	813.1	794.9	807.9	840.5	847.0
55°	11709.3	7696.9	1303.6	1004.4	925.0	835.3	784.5	753.3	763.7	793.6	798.8
57.5°	12944.0	8610.3	1520.9	1001.8	893.8	815.8	754.6	707.8	715.6	733.8	739.0
60°	14229.4	9713.5	1857.9	1009.6	879.5	792.3	714.3	655.7	653.1	668.7	671.3
62.5°	15772.5	10989.9	2243.0	1014.8	888.6	762.4	660.9	603.7	595.9	599.8	602.4
65°	17362.3	11913.6	2098.6	994.0	917.2	737.7	614.1	552.9	538.6	536.0	537.3
67.5°	17411.8	10923.5	1471.5	952.4	928.9	724.7	579.0	510.0	486.6	477.5	476.2
70°	15615.0	8874.4	1146.2	908.1	882.1	703.9	546.4	474.9	439.8	425.4	424.1
71°	14738.1	8169.2	1086.4	886.0	847.0	683.0	532.1	459.3	422.8	407.2	404.6
72.5°	13362.9	7323.5	1013.5	850.9	779.3	629.7	504.8	437.1	399.4	381.2	377.3
75°	9589.9	4789.1	870.4	758.5	645.3	502.2	442.4	392.9	360.4	338.3	335.7
77.5°	3694.9	1906.0	658.3	631.0	494.4	392.9	364.3	339.6	316.2	294.0	292.7
80°	1142.3	852.2	480.1	474.9	357.8	292.7	283.6	277.1	268.0	244.6	239.4
82.5°	610.2	489.2	330.5	307.0	234.2	195.2	205.6	208.2	209.5	184.7	182.1
85°	291.4	258.9	186.0	174.3	136.6	109.3	126.2	136.6	137.9	113.2	105.4
87.5°	139.2	135.3	87.2	66.4	50.7	36.4	44.2	54.6	59.8	42.9	37.7
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)