

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: P299925

Luminaire Tested: **GAA-AF-09-LED-U-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299925
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: GAA-AF-09-LED-U-SL3-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34965.1 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

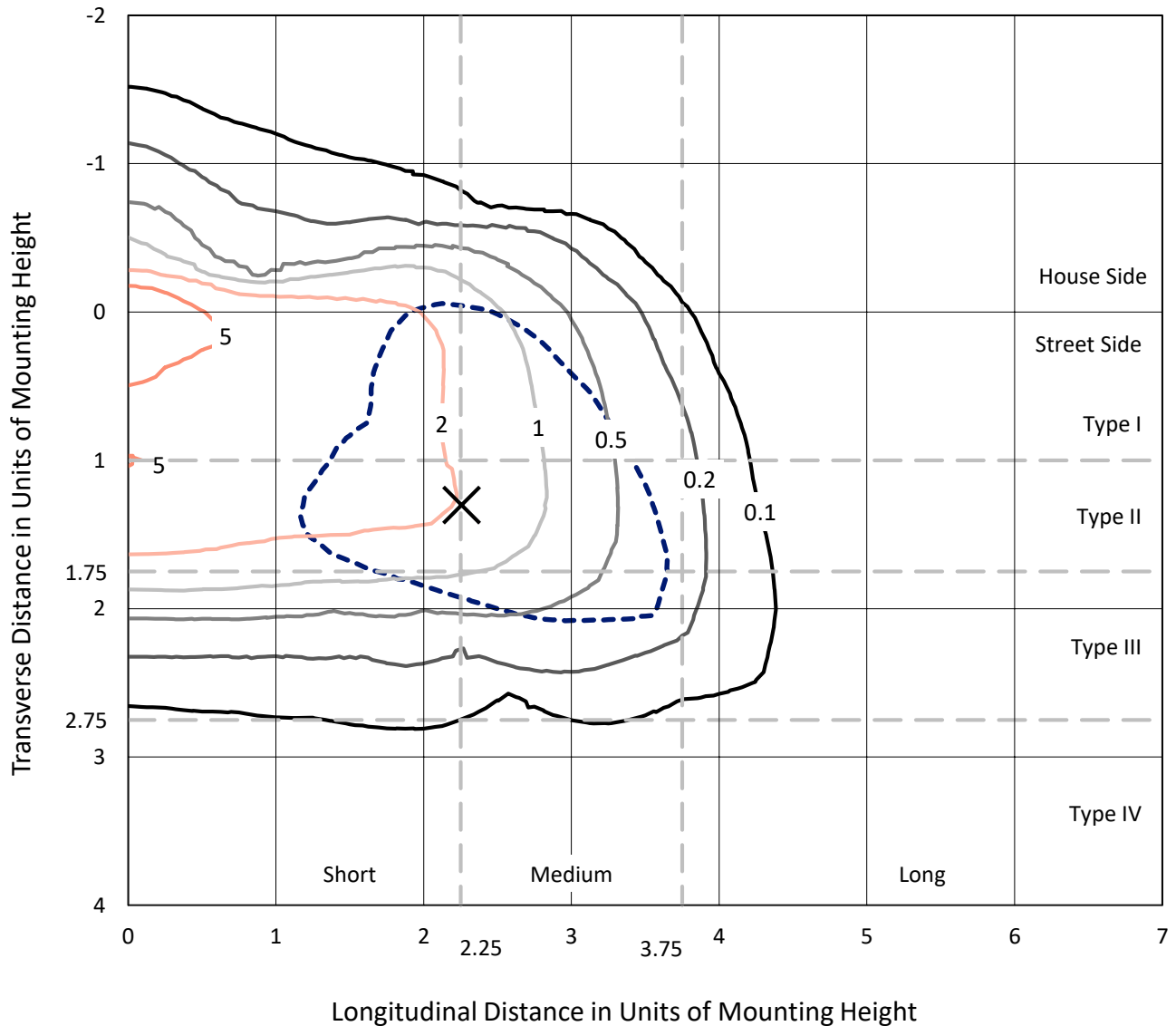
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P299925
 CATALOG NUMBER: GAA-AF-09-LED-U-SL3-8030-800

Iso-Footcandle Lines of Horizontal Illumination

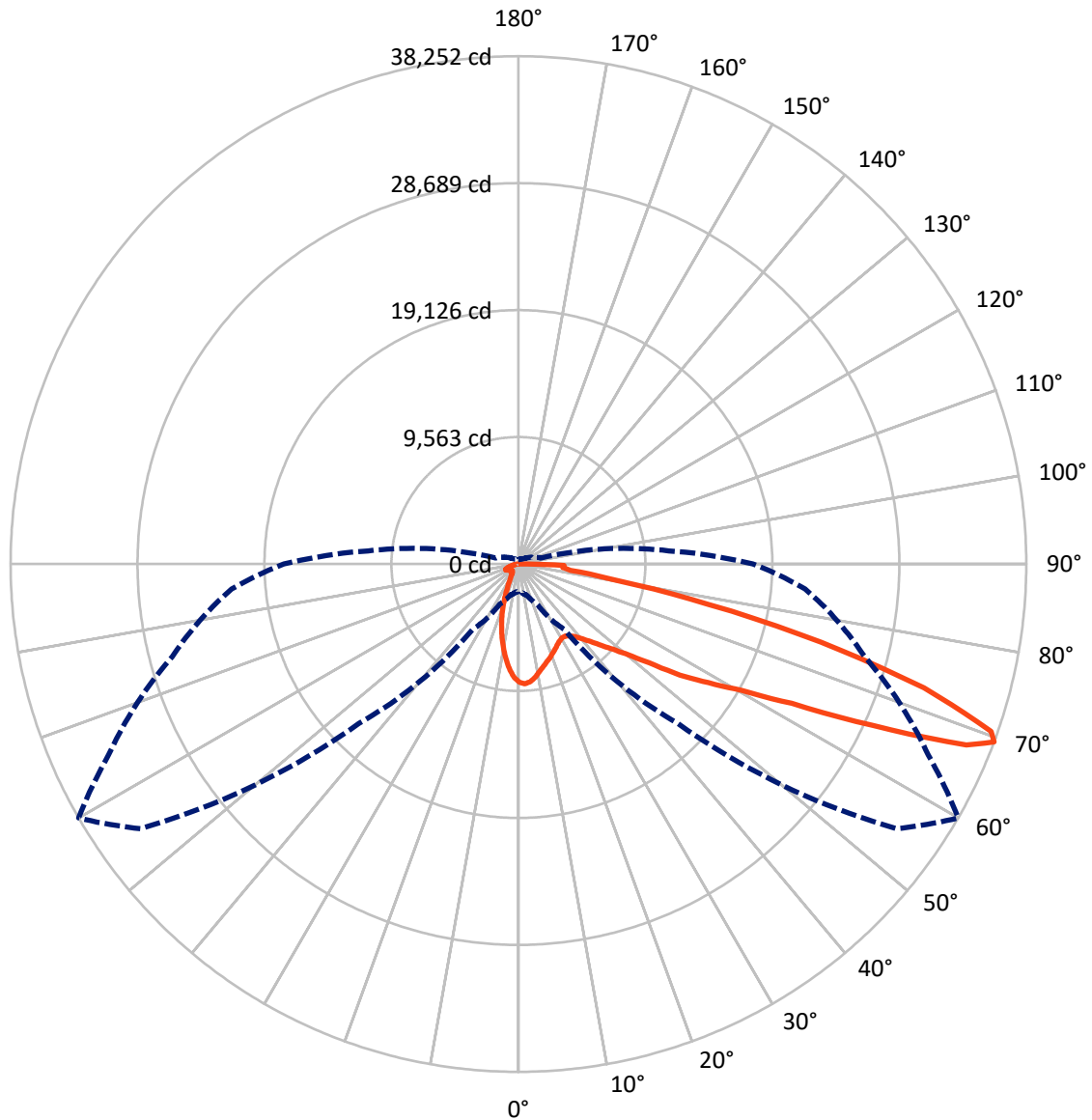
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P299925
CATALOG NUMBER: GAA-AF-09-LED-U-SL3-8030-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P299925

CATALOG NUMBER: GAA-AF-09-LED-U-SL3-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4974.4	0.0	4974.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	29990.7	0.0	29990.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	34965.1	0.0	34965.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.3	2.2
10°-20°	1605.0	4.6
20°-30°	2045.1	5.8
30°-40°	2811.5	8.0
40°-50°	4561.9	13.0
50°-60°	7316.2	20.9
60°-70°	9737.3	27.8
70°-80°	5257.4	15.0
80°-90°	877.2	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°	34965.1	100.0
0°-180°	34965.1	100.0

Coefficient of Utilization



REPORT NUMBER: P299925

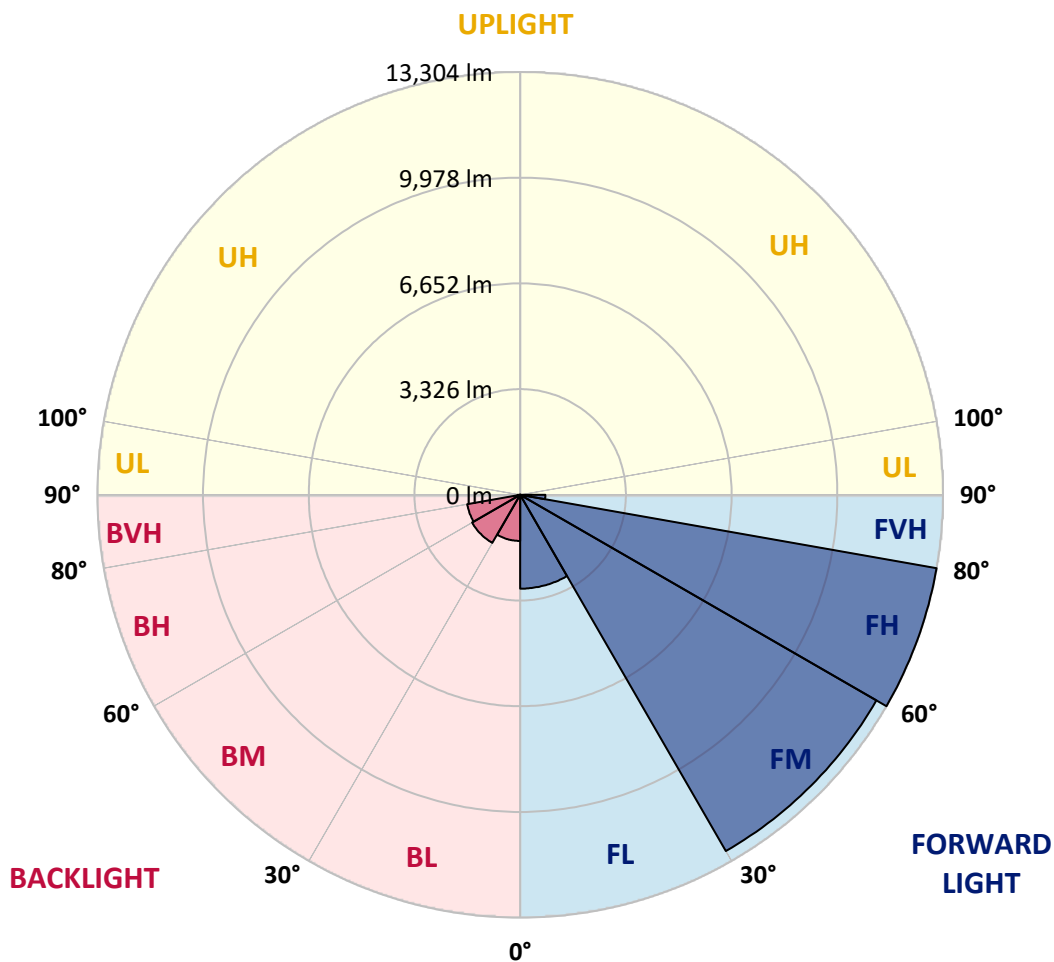
CATALOG NUMBER: GAA-AF-09-LED-U-SL3-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2952.3	8.4			
FM (30°-60°)	12942.0	37.0			
FH (60°-80°)	13303.6	38.0			G5
FVH (80°-90°)	792.8	2.3			G5
BL (0°-30°)	1451.2	4.2	B3/2500		
BM (30°-60°)	1747.6	5.0	B2/2500		
BH (60°-80°)	1691.1	4.8	B3/2500		G3/2500
BVH (80°-90°)	84.5	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





REPORT NUMBER: P299925

CATALOG NUMBER: GAA-AF-09-LED-U-SL3-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8909.6	8909.6	8909.6	8909.6	8909.6	8909.6	8909.6	8909.6	8909.6	8909.6	8909.6
2.5°	9092.1	9112.3	9103.9	9098.8	9114.0	9090.4	9041.4	9026.2	9002.5	8946.8	8852.2
5°	8750.9	8811.7	8808.3	8853.9	8929.9	8950.2	8928.2	8931.6	8887.7	8818.4	8661.4
7.5°	8161.4	8186.7	8200.2	8299.9	8438.4	8549.9	8644.5	8674.9	8654.6	8595.5	8392.8
10°	7553.3	7573.6	7605.7	7722.3	7897.9	8051.6	8230.6	8333.7	8377.6	8367.5	8141.1
12.5°	7031.4	7051.7	7093.9	7225.7	7435.1	7624.3	7884.4	8012.8	8117.5	8180.0	7936.8
15°	6563.6	6607.5	6648.0	6800.0	7034.8	7283.1	7577.0	7739.1	7901.3	8041.5	7756.0
17.5°	6198.7	6242.7	6266.3	6404.8	6654.8	6958.8	7303.4	7494.2	7696.9	7926.6	7577.0
20°	5987.6	6007.9	5997.7	6075.4	6300.1	6622.7	7031.4	7252.7	7497.6	7818.5	7398.0
22.5°	5928.5	5930.2	5893.0	5884.6	6029.8	6301.8	6740.9	7009.5	7310.1	7747.6	7244.3
25°	6072.1	6067.0	5965.7	5882.9	5898.1	6056.9	6460.5	6773.0	7153.0	7732.4	7126.0
27.5°	6391.3	6406.5	6256.2	6100.8	5947.1	5942.0	6247.7	6577.1	7024.7	7801.6	7075.4
30°	6838.9	6864.2	6703.8	6506.1	6217.3	5979.2	6165.0	6460.5	6945.3	7945.2	7066.9
32.5°	7328.7	7355.7	7234.1	7026.4	6648.0	6208.9	6222.4	6470.7	6941.9	8146.2	7124.3
35°	7850.6	7881.0	7818.5	7642.9	7222.3	6632.8	6442.0	6634.5	7051.7	8453.6	7278.0
37.5°	8433.3	8480.6	8497.5	8330.3	7881.0	7191.9	6801.7	6945.3	7300.0	8880.9	7560.1
40°	9272.8	9338.7	9333.6	9093.7	8636.0	7946.9	7357.4	7394.6	7686.8	9451.8	8011.1
42.5°	10880.7	10894.3	10473.7	9951.8	9467.0	8740.7	8012.8	7982.4	8220.5	10174.7	8674.9
45°	12926.2	12870.4	11934.7	10926.3	10335.2	9652.8	8865.7	8717.1	8897.8	11056.4	9505.9
47.5°	14623.6	14495.3	13312.9	11921.2	11254.0	10644.3	9867.3	9607.2	9706.9	12056.3	10580.1
50°	15213.1	15116.8	14137.2	12748.8	12123.9	11853.6	11100.3	10732.1	10759.1	13248.8	11838.4
52.5°	15086.4	15072.9	14419.3	13294.4	12938.0	13123.8	12846.8	12348.5	12085.0	14573.0	13196.4
55°	14787.5	14816.2	14579.7	13929.4	13868.6	14350.0	15128.7	14760.4	13941.3	15909.0	14600.0
57.5°	13748.7	13823.0	14343.3	14728.4	15366.8	16083.0	16966.3	16861.6	15939.4	17353.1	16268.7
60°	11076.7	11248.9	12644.1	14573.0	16908.9	19148.5	19543.8	19300.6	18000.0	19145.2	18472.9
62.5°	7761.1	7940.1	9598.8	12617.1	16655.5	22611.1	24151.5	23102.6	20959.2	21785.1	21325.7
65°	4155.0	4241.2	5507.9	8754.2	14061.2	23325.5	30885.6	29289.5	25644.6	25039.9	23766.4
67.5°	2292.0	2339.3	2824.1	4420.2	9005.9	20540.3	35175.8	36381.7	31500.4	27206.9	23322.1
69°	2072.4	2116.4	2433.9	3347.7	6026.5	16983.2	34756.9	38251.5	34067.8	26992.4	21680.4
70°	2026.8	2067.4	2352.8	3085.9	4877.9	13998.7	33353.3	37773.5	34679.2	26223.9	20248.1
72.5°	1824.2	1868.1	2145.1	2771.7	4168.5	6979.1	26419.8	31937.9	31485.2	22737.7	15358.4
75°	1700.9	1741.4	2210.9	2714.3	3991.2	4416.8	17417.3	23538.3	23144.8	15905.6	8281.3
77.5°	728.0	724.6	1025.2	2297.1	4050.3	4276.6	9358.9	14704.7	13416.0	6798.4	2378.2
80°	486.4	478.0	486.4	675.6	3714.2	4300.3	4903.3	7463.8	5638.0	1732.9	1172.2
82.5°	418.9	412.1	427.3	412.1	1305.6	4908.3	4168.5	3969.2	2680.5	984.7	581.0
85°	282.1	270.2	368.2	369.9	616.5	4361.1	4695.5	3352.7	2168.7	584.4	287.1
87.5°	135.1	131.7	214.5	261.8	361.5	1771.8	5268.1	3435.5	2187.3	299.0	136.8
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: P299925

CATALOG NUMBER: GAA-AF-09-LED-U-SL3-8030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8909.6	8909.6	8909.6	8909.6	8909.6	8909.6	8909.6	8909.6	8909.6	8909.6	8909.6
2.5°	8823.5	8754.2	8686.7	8605.6	8521.2	8426.6	8379.3	8332.0	8320.2	8306.7	8259.4
5°	8580.3	8482.3	8313.4	8127.6	7931.7	7740.8	7595.6	7504.4	7435.1	7399.6	7337.2
7.5°	8266.1	8122.6	7827.0	7506.1	7176.7	6876.0	6615.9	6452.1	6296.7	6224.1	6141.3
10°	7967.2	7752.7	7293.2	6820.3	6347.4	5893.0	5465.7	5163.4	4894.8	4744.5	4638.1
12.5°	7710.4	7416.5	6779.8	6139.6	5491.0	4844.1	4204.0	3700.7	3280.1	3058.8	2945.7
15°	7460.5	7105.8	6291.6	5479.2	4646.5	3766.5	2925.4	2354.5	2006.6	1868.1	1820.8
17.5°	7234.1	6779.8	5801.8	4813.7	3775.0	2710.9	1966.0	1651.9	1518.4	1472.8	1457.6
20°	6989.2	6450.4	5293.4	4117.9	2866.3	1895.1	1535.3	1396.8	1342.8	1329.3	1322.5
22.5°	6752.7	6126.1	4807.0	3373.0	2058.9	1462.7	1319.1	1261.7	1253.3	1265.1	1265.1
25°	6551.8	5835.6	4281.7	2594.4	1511.7	1231.3	1180.6	1167.1	1199.2	1243.1	1251.6
27.5°	6401.4	5597.4	3722.6	1915.4	1204.3	1070.8	1069.2	1091.1	1170.5	1255.0	1271.8
30°	6298.4	5371.1	3124.7	1381.6	1010.0	942.5	969.5	1016.8	1133.3	1253.3	1285.4
32.5°	6246.0	5203.9	2501.5	1069.2	864.8	827.6	873.2	930.7	1045.5	1157.0	1199.2
35°	6286.6	5080.6	1913.7	891.8	763.4	734.7	782.0	837.8	905.3	952.6	984.7
37.5°	6438.6	5031.6	1444.1	798.9	694.2	667.2	704.3	736.4	763.4	777.0	792.2
40°	6766.3	5084.0	1157.0	751.6	655.3	621.6	636.8	648.6	665.5	679.0	685.7
42.5°	7249.3	5241.1	1037.1	733.0	635.1	586.1	582.7	587.8	609.7	635.1	640.1
45°	7924.9	5518.1	1028.6	744.9	624.9	557.4	542.2	548.9	582.7	621.6	628.3
47.5°	8788.0	5940.3	1096.2	780.3	633.4	542.2	516.8	525.3	567.5	619.9	628.3
50°	9833.5	6529.8	1209.3	832.7	670.5	545.6	508.4	513.5	557.4	614.8	623.3
52.5°	11068.2	7365.9	1332.6	883.4	709.4	567.5	515.2	503.3	543.9	594.5	604.7
55°	12441.4	8438.4	1459.3	929.0	729.7	594.5	528.7	489.8	518.5	560.8	569.2
57.5°	14127.1	9938.3	1678.9	972.9	743.2	613.1	542.2	476.3	486.4	516.8	523.6
60°	16408.9	12059.7	2065.7	1045.5	773.6	619.9	540.5	464.5	454.3	471.2	474.6
62.5°	19143.5	14363.5	2388.3	1136.7	824.2	624.9	530.4	456.0	427.3	427.3	430.7
65°	20766.6	14980.0	2209.3	1212.7	866.5	619.9	518.5	447.6	407.1	388.5	390.2
67.5°	19390.1	13174.4	1893.4	1227.9	864.8	596.2	500.0	432.4	386.8	358.1	356.4
69°	17665.6	11367.2	1751.5	1187.4	824.2	565.8	476.3	415.5	371.6	341.2	339.5
70°	16275.5	10264.2	1658.6	1143.5	780.3	543.9	457.7	400.3	359.8	331.1	327.7
72.5°	11833.4	6725.7	1417.1	983.0	643.5	456.0	395.2	351.3	320.9	304.0	300.6
75°	5913.3	3207.5	1150.2	797.2	493.2	364.8	324.3	293.9	278.7	275.3	273.6
77.5°	1942.4	1469.5	822.6	594.5	366.5	285.4	261.8	239.8	236.5	246.6	243.2
80°	1067.5	854.6	521.9	393.5	250.0	209.4	206.1	194.2	199.3	216.2	212.8
82.5°	543.9	444.2	322.6	236.5	168.9	150.3	163.8	157.1	163.8	179.0	177.3
85°	268.6	243.2	204.4	143.6	111.5	96.3	116.5	121.6	125.0	136.8	136.8
87.5°	155.4	143.6	108.1	67.6	55.7	50.7	67.6	65.9	77.7	84.5	82.8
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)