

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: P320172

Luminaire Tested: **GAN-SA8C-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42803 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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

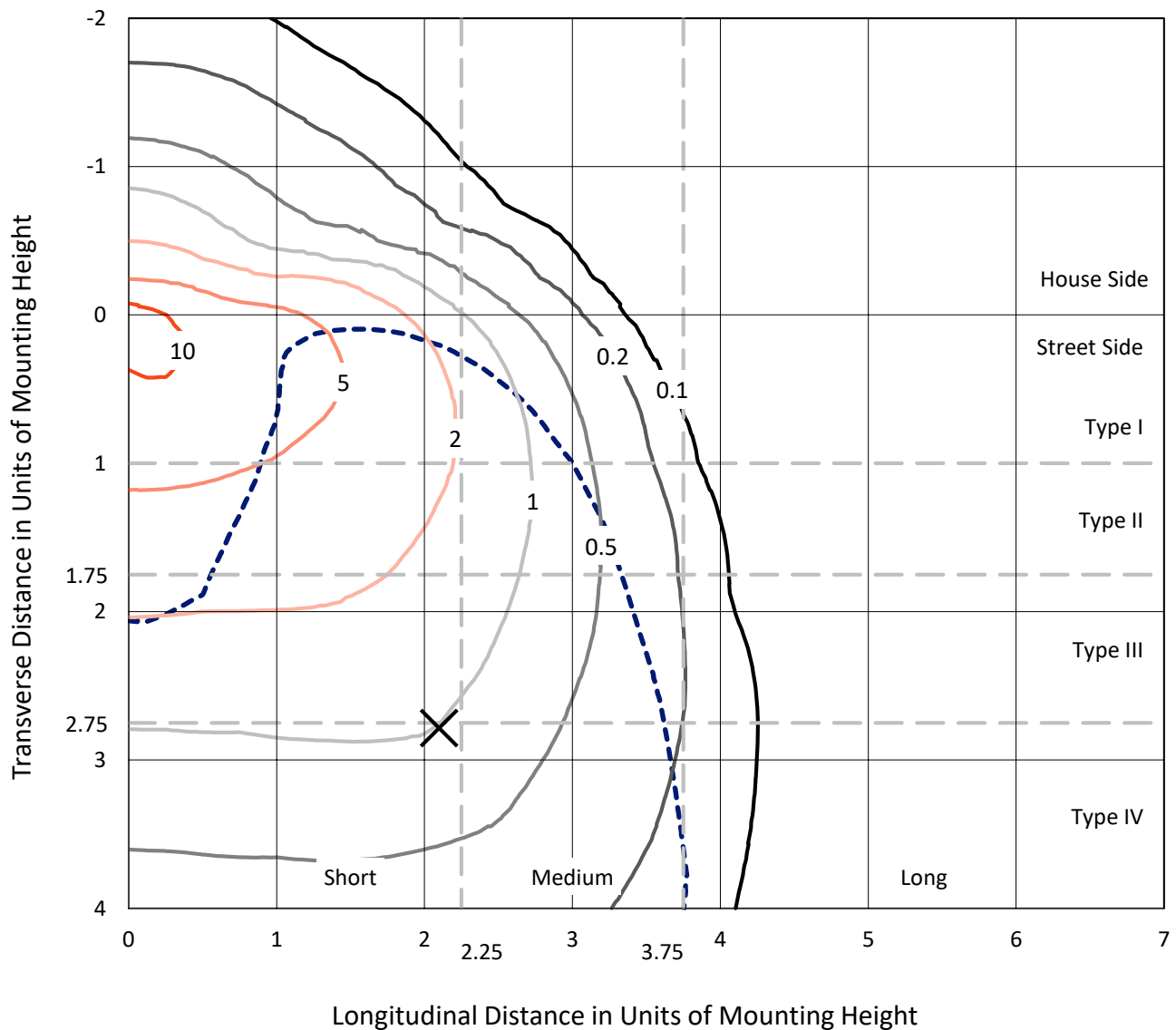


REPORT NUMBER: P320172

CATALOG NUMBER: GAN-SA8C-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

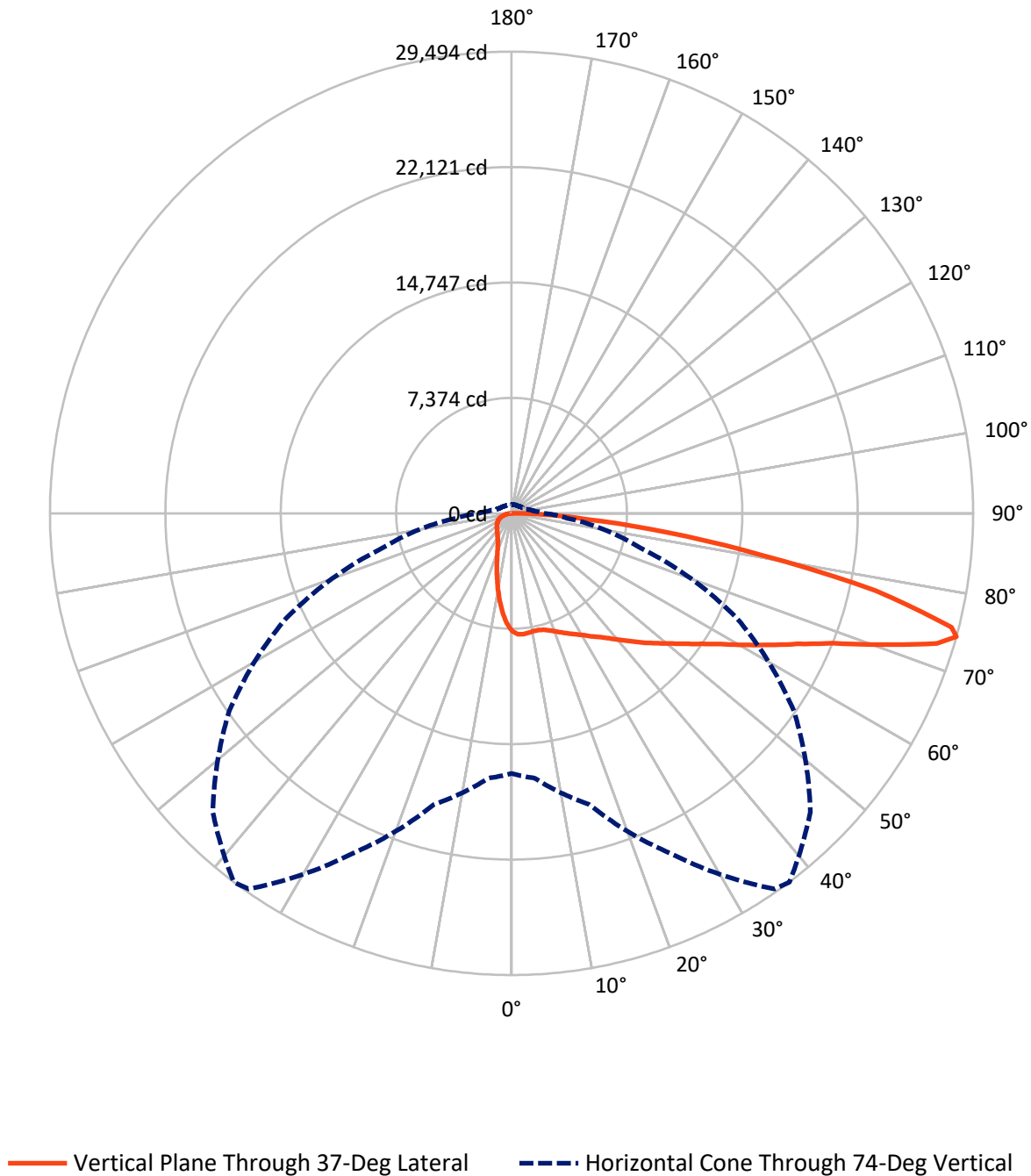
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P320172
CATALOG NUMBER: GAN-SA8C-830-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P320172

CATALOG NUMBER: GAN-SA8C-830-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5889.4	0.0	5889.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	36913.6	0.0	36913.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	42803.0	0.0	42803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.1	1.6
10°-20°	1702.3	4.0
20°-30°	2623.0	6.1
30°-40°	3814.2	8.9
40°-50°	5613.9	13.1
50°-60°	7883.7	18.4
60°-70°	9978.3	23.3
70°-80°	8786.3	20.5
80°-90°	1737.2	4.1
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°	42803.0	100.0
0°-180°	42803.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320172

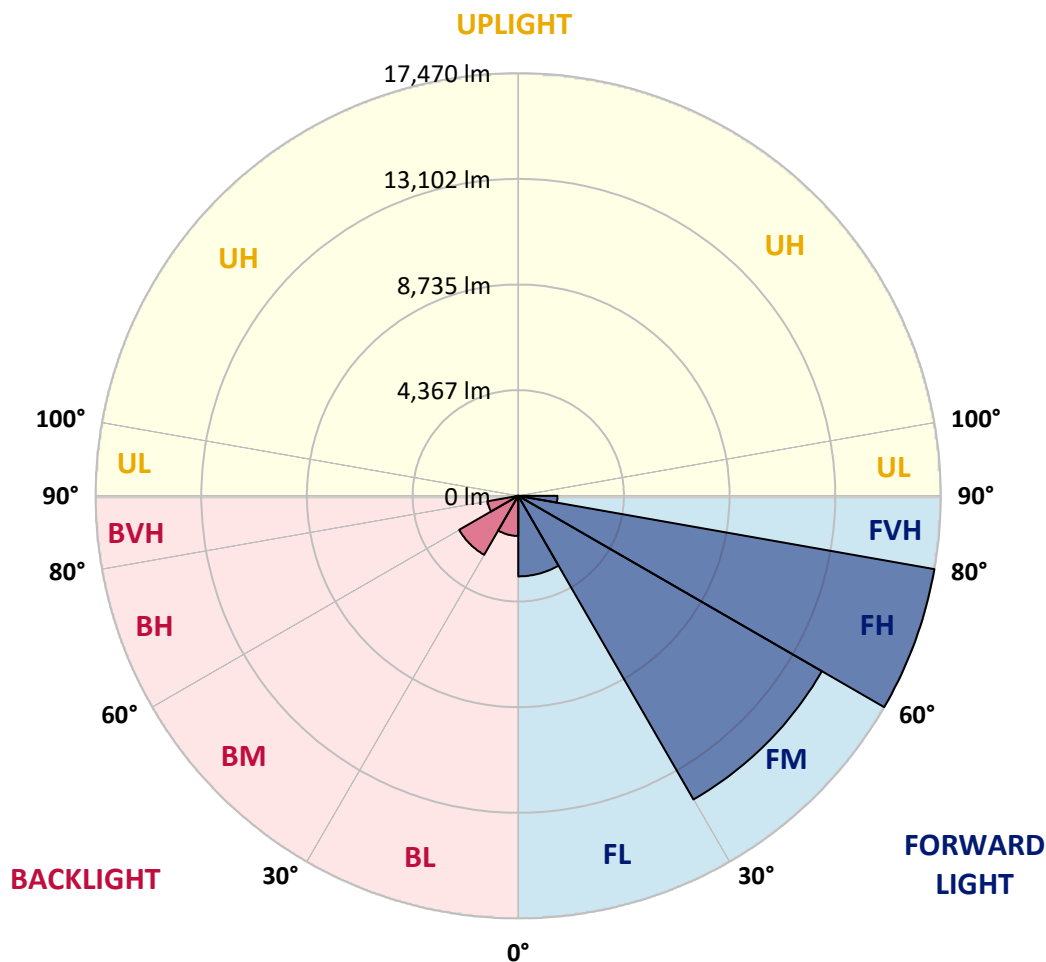
CATALOG NUMBER: GAN-SA8C-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3330.6	7.8			
FM	(30°-60°)	14493.4	33.9			
FH	(60°-80°)	17470.0	40.8			G5
FVH	(80°-90°)	1619.6	3.8			G5
BL	(0°-30°)	1658.9	3.9	B3/2500		
BM	(30°-60°)	2818.3	6.6	B3/5000		
BH	(60°-80°)	1294.6	3.0	B3/2500		G3/2500
BVH	(80°-90°)	117.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P320172

CATALOG NUMBER: GAN-SA8C-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	7541.7	7541.7	7541.7	7541.7	7541.7	7541.7	7541.7	7541.7	7541.7	7541.7	7541.7
2.5°	7799.5	7801.1	7799.5	7787.5	7758.8	7734.7	7715.1	7686.5	7623.1	7574.9	7502.5
5°	7873.4	7864.4	7858.3	7835.7	7790.5	7763.4	7725.7	7671.4	7567.4	7470.9	7353.3
7.5°	7838.7	7828.2	7814.6	7787.5	7736.2	7713.6	7660.8	7590.0	7464.8	7338.2	7169.3
10°	7731.7	7728.7	7722.7	7716.6	7672.9	7654.8	7606.6	7531.2	7407.5	7253.7	7056.2
12.5°	7612.6	7620.1	7644.2	7675.9	7656.3	7647.3	7617.1	7565.8	7439.2	7273.3	7035.1
15°	7537.2	7558.3	7623.1	7706.1	7722.7	7719.6	7712.1	7678.9	7544.7	7360.8	7083.4
17.5°	7511.6	7546.2	7669.9	7807.1	7855.3	7865.9	7868.9	7811.6	7662.3	7467.8	7133.1
20°	7558.3	7602.0	7783.0	7971.4	8048.3	8054.4	8040.8	7941.3	7773.9	7559.8	7160.3
22.5°	7700.0	7739.2	7965.4	8178.0	8265.4	8274.5	8233.8	8083.0	7891.5	7668.4	7198.0
25°	7972.9	8021.2	8247.3	8459.9	8505.2	8506.7	8447.9	8260.9	8045.3	7820.7	7279.4
27.5°	8328.8	8377.0	8580.6	8788.6	8764.5	8750.9	8671.0	8484.1	8245.8	8030.2	7424.1
30°	8725.3	8778.1	8971.1	9118.8	9061.5	9034.4	8969.6	8728.3	8524.8	8316.7	7645.8
32.5°	9135.4	9183.7	9352.5	9453.5	9381.2	9369.1	9271.1	9051.0	8888.1	8753.9	8004.6
35°	9556.1	9590.7	9756.6	9813.9	9717.4	9714.4	9687.2	9485.2	9382.7	9446.0	8526.3
37.5°	9985.8	9994.8	10136.5	10139.6	10110.9	10123.0	10151.6	10025.0	10053.6	10251.1	9204.8
40°	10368.7	10392.9	10495.4	10527.1	10576.8	10619.0	10762.3	10679.3	10901.0	11250.8	10049.1
42.5°	10652.2	10698.9	10863.3	10944.7	11106.0	11172.4	11374.4	11451.3	11897.6	12422.3	11053.3
45°	10891.9	10964.3	11228.2	11395.5	11668.4	11784.5	12074.0	12331.8	13023.9	13693.3	12110.2
47.5°	11151.3	11243.2	11573.4	11893.1	12264.0	12395.1	12921.3	13307.3	14225.5	14971.9	13106.8
50°	11532.7	11603.6	11926.2	12428.3	12891.2	13060.1	13788.3	14341.6	15446.8	16190.1	13970.7
52.5°	12064.9	12037.8	12310.7	13014.8	13636.0	13844.1	14714.0	15442.3	16684.7	17292.3	14700.5
55°	12600.2	12555.0	12746.4	13628.5	14504.5	14723.1	15733.3	16547.5	17862.2	18284.4	15259.9
57.5°	13195.8	13109.8	13271.1	14320.5	15493.6	15754.4	16874.6	17722.0	19020.2	19086.5	15615.7
60°	13809.4	13693.3	13874.2	15178.4	16749.5	17057.1	18210.5	18867.9	20111.8	19728.8	15730.3
62.5°	14346.2	14264.7	14543.7	16135.8	18165.3	18503.0	19522.2	20086.1	21188.3	19995.7	15317.1
65°	14815.1	14828.6	15311.1	17212.4	19743.9	20104.2	21027.0	21587.8	22035.6	19837.4	14350.7
67.5°	15374.4	15451.3	16274.6	18629.7	21731.1	22126.1	23216.2	23225.2	22509.1	18908.6	12447.9
70°	16190.1	16348.4	17599.9	20595.7	24556.6	25099.4	25940.7	24187.2	21844.2	16390.7	9794.3
72.5°	16913.8	17209.4	19009.6	22845.3	28000.3	28411.9	27534.4	23632.3	19065.4	12283.6	6101.8
74°	16619.8	16986.2	19265.9	23953.5	29296.9	29494.4	26996.1	22013.0	15896.1	8506.7	3546.2
75°	15986.6	16384.6	18892.0	23942.9	29132.6	29022.5	25696.4	20163.0	13091.7	5801.8	2359.6
77.5°	12901.7	13322.4	15918.7	20520.4	23887.1	23783.1	19739.4	13525.9	5733.9	1902.8	1198.7
80°	7501.0	7822.2	9881.7	13031.4	16107.2	16295.7	12981.7	6692.9	2255.6	1069.0	812.7
82.5°	3332.1	3553.7	4773.5	6652.2	9720.4	9963.2	6798.4	3507.0	1393.2	649.8	488.5
85°	2186.2	2350.6	2897.9	3167.8	4628.8	4794.6	3327.6	2730.5	919.7	357.3	358.8
87.5°	1572.6	1730.9	2153.1	1880.2	2124.4	2011.3	1810.8	2527.0	369.4	203.5	120.6
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: P320172

CATALOG NUMBER: GAN-SA8C-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7541.7	7541.7	7541.7	7541.7	7541.7	7541.7	7541.7	7541.7	7541.7	7541.7	7541.7
2.5°	7470.9	7446.7	7392.5	7289.9	7232.6	7184.4	7104.5	7057.7	7036.6	7035.1	7044.2
5°	7285.4	7229.6	7089.4	6917.5	6780.3	6655.2	6499.9	6406.4	6340.1	6300.9	6311.4
7.5°	7069.8	6982.4	6762.2	6487.8	6267.7	6024.9	5785.2	5642.0	5530.4	5447.5	5462.5
10°	6922.0	6801.4	6480.3	6085.2	5718.9	5366.1	5035.9	4838.3	4681.5	4560.9	4570.0
12.5°	6872.3	6709.4	6264.7	5737.0	5222.8	4740.3	4309.1	4006.1	3844.7	3707.5	3718.1
15°	6879.8	6661.2	6083.7	5423.3	4776.5	4168.9	3645.7	3291.4	3072.8	2977.8	2979.3
17.5°	6885.9	6605.4	5893.8	5087.1	4334.8	3635.2	3066.7	2707.9	2501.3	2413.9	2415.4
20°	6866.3	6515.0	5658.6	4701.1	3873.4	3145.1	2594.8	2290.3	2133.5	2065.6	2065.6
22.5°	6840.6	6407.9	5393.2	4313.6	3418.0	2720.0	2257.1	2024.9	1934.4	1889.2	1887.7
25°	6852.7	6328.0	5121.8	3915.6	2998.9	2380.7	2032.4	1878.6	1818.3	1789.7	1788.2
27.5°	6917.5	6290.3	4871.5	3519.1	2632.5	2125.9	1881.7	1773.1	1733.9	1715.8	1715.8
30°	7035.1	6290.3	4610.7	3181.3	2328.0	1937.4	1765.6	1691.7	1664.5	1652.5	1652.5
32.5°	7240.2	6325.0	4358.9	2846.6	2085.2	1789.7	1669.1	1619.3	1598.2	1592.2	1592.2
35°	7593.0	6442.6	4113.1	2530.0	1889.2	1669.1	1577.1	1548.5	1533.4	1531.9	1536.4
37.5°	8089.0	6682.3	3882.4	2296.3	1750.5	1571.1	1500.2	1477.6	1468.5	1476.1	1482.1
40°	8713.2	7008.0	3672.9	2085.2	1644.9	1492.7	1429.3	1414.3	1409.7	1420.3	1429.3
42.5°	9467.1	7448.2	3501.0	1932.9	1563.5	1426.3	1369.0	1350.9	1346.4	1358.5	1370.5
45°	10282.8	7921.7	3380.4	1819.8	1500.2	1376.6	1316.3	1296.7	1287.6	1293.6	1307.2
47.5°	11024.6	8369.5	3332.1	1739.9	1439.9	1334.4	1269.5	1245.4	1230.3	1227.3	1237.9
50°	11650.3	8702.7	3354.7	1691.7	1391.6	1287.6	1224.3	1197.1	1174.5	1161.0	1168.5
52.5°	12105.7	8912.3	3375.8	1670.6	1354.0	1236.3	1174.5	1148.9	1118.7	1096.1	1096.1
55°	12435.9	8960.5	3329.1	1654.0	1325.3	1180.6	1118.7	1094.6	1064.5	1038.8	1035.8
57.5°	12565.5	8824.8	3155.7	1629.9	1305.7	1127.8	1059.9	1041.8	1016.2	986.1	984.6
60°	12390.6	8405.7	2821.0	1578.6	1280.1	1084.1	1001.1	989.1	977.0	948.4	946.9
62.5°	11688.0	7485.9	2388.3	1474.6	1228.8	1037.3	946.9	952.9	954.4	934.8	931.8
65°	10414.0	6222.4	1966.1	1338.9	1151.9	981.5	891.1	919.7	936.3	933.3	928.8
67.5°	8562.5	4842.9	1666.1	1195.6	1050.9	904.6	830.8	863.9	877.5	888.1	885.0
70°	6355.1	3415.0	1378.1	1044.9	928.8	814.2	752.4	768.9	759.9	772.0	776.5
72.5°	3543.2	2049.0	1123.3	894.1	802.1	708.6	664.9	661.9	642.3	642.3	642.3
74°	2125.9	1503.2	987.6	800.6	725.2	639.3	601.6	588.0	569.9	571.4	569.9
75°	1709.8	1292.1	906.2	738.8	670.9	598.6	560.9	542.8	529.2	529.2	527.7
77.5°	1079.5	981.5	729.7	588.0	536.8	493.0	467.4	443.3	443.3	441.8	440.3
80°	815.7	781.0	568.4	444.8	411.6	378.4	361.9	351.3	351.3	355.8	354.3
82.5°	559.4	588.0	399.6	310.6	294.0	269.9	266.9	268.4	263.9	257.8	256.3
85°	408.6	441.8	269.9	196.0	179.4	164.3	176.4	182.4	174.9	161.3	155.3
87.5°	156.8	289.5	144.7	81.4	75.4	64.8	75.4	78.4	84.4	66.3	67.8
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)