

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: P318858

Luminaire Tested: **GAN-SA4D-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23147 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

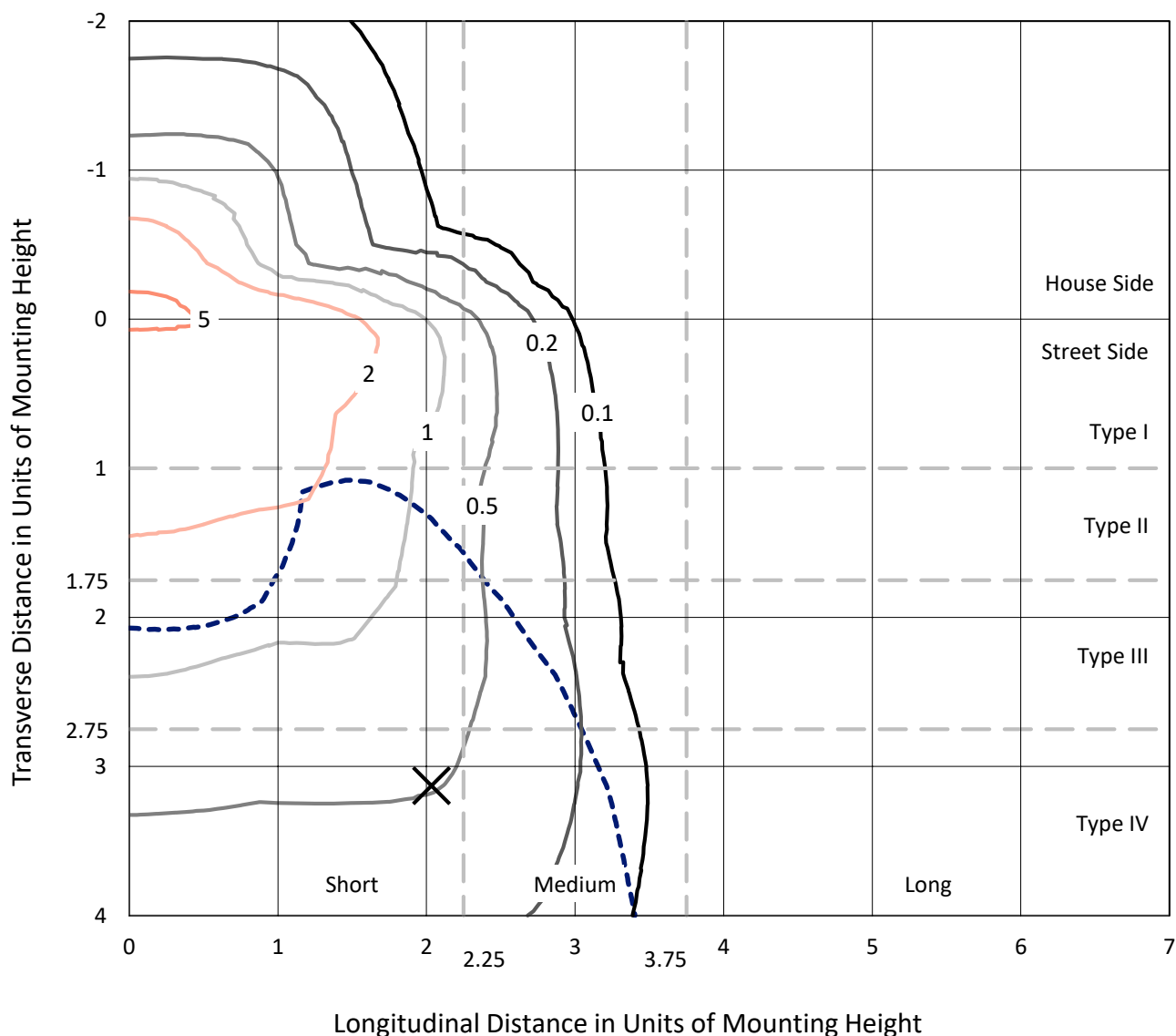
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318858
 CATALOG NUMBER: GAN-SA4D-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

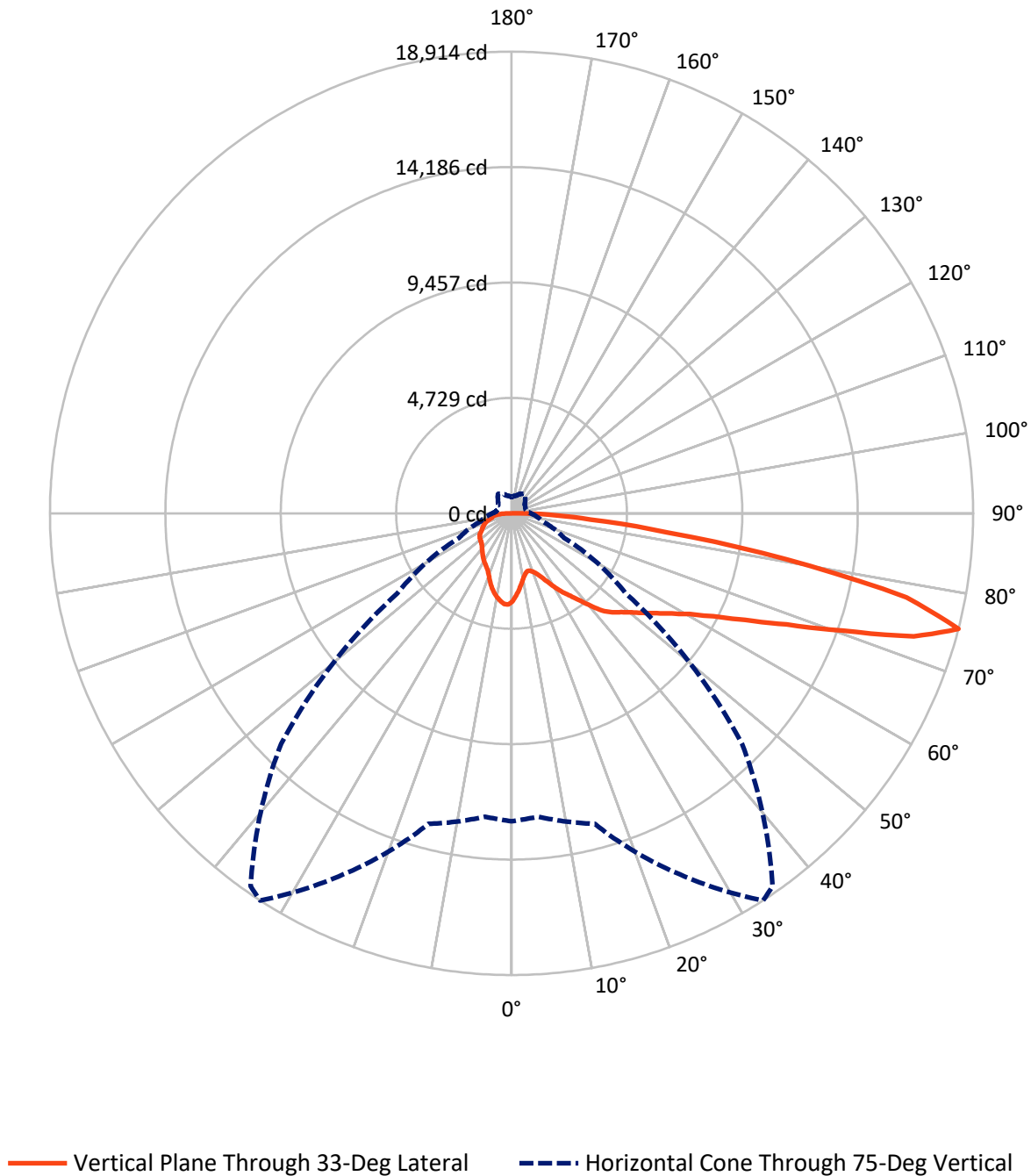
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P318858
CATALOG NUMBER: GAN-SA4D-827-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P318858

CATALOG NUMBER: GAN-SA4D-827-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4970.3	0.0	4970.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	18176.7	0.0	18176.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	23147.0	0.0	23147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.2	1.4
10°-20°	886.2	3.8
20°-30°	1447.3	6.3
30°-40°	2155.4	9.3
40°-50°	3091.4	13.4
50°-60°	4244.0	18.3
60°-70°	5313.3	23.0
70°-80°	4806.7	20.8
80°-90°	875.6	3.8
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°	23147.0	100.0
0°-180°	23147.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318858

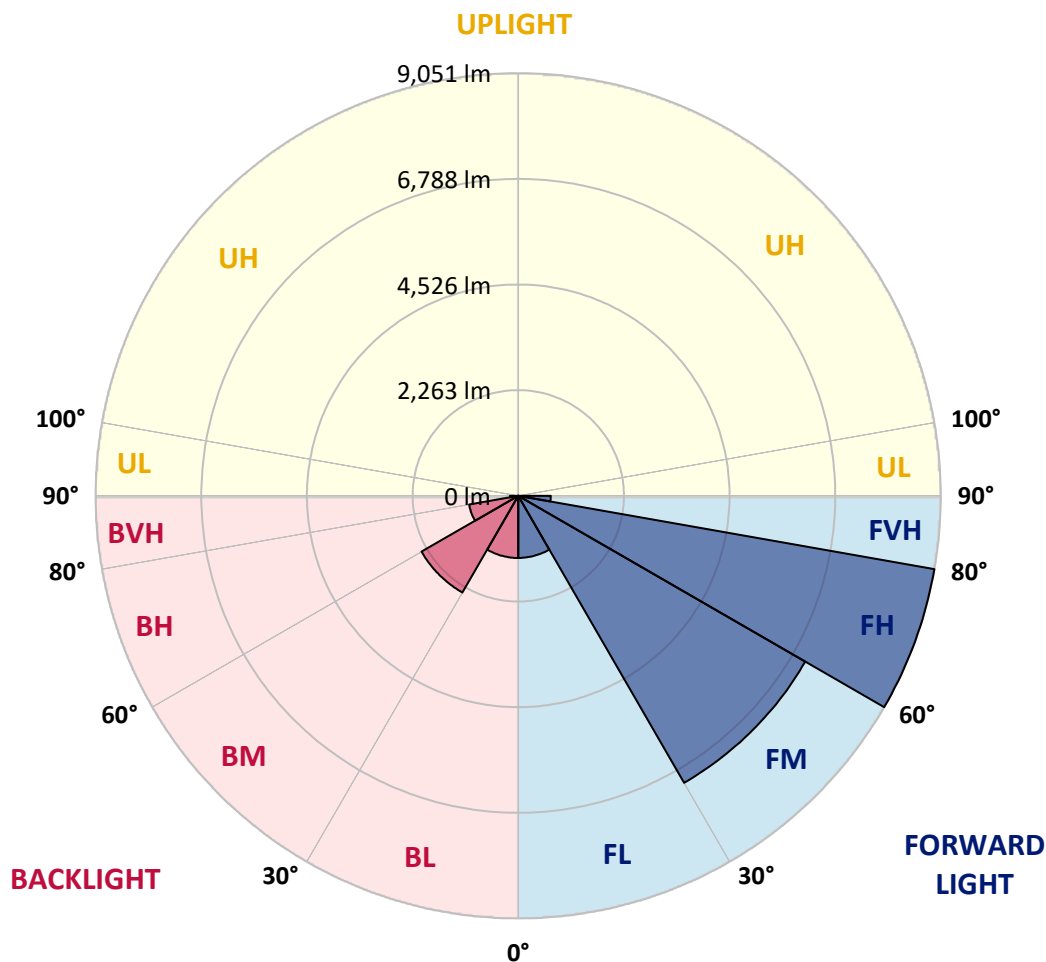
CATALOG NUMBER: GAN-SA4D-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1329.4	5.7			
FM	(30°-60°)	7098.7	30.7			
FH	(60°-80°)	9051.3	39.1			G4/12000
FVH	(80°-90°)	697.3	3.0			G4/750
BL	(0°-30°)	1331.3	5.8	B3/2500		
BM	(30°-60°)	2392.0	10.3	B2/2500		
BH	(60°-80°)	1068.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	178.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



REPORT NUMBER: P318858

CATALOG NUMBER: GAN-SA4D-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0
2.5°	3359.7	3347.0	3370.9	3374.1	3394.9	3402.9	3431.7	3476.5	3513.3	3555.6	3594.0
5°	3055.1	3046.3	3079.9	3103.9	3149.5	3168.7	3236.6	3331.8	3416.5	3512.5	3599.6
7.5°	2765.7	2760.9	2798.5	2852.8	2905.6	2932.0	3049.5	3187.8	3329.4	3484.5	3618.0
10°	2521.8	2520.2	2556.2	2609.8	2687.3	2716.9	2868.8	3051.1	3249.4	3462.9	3649.2
12.5°	2385.1	2390.7	2407.5	2452.2	2524.2	2553.8	2722.5	2936.8	3182.2	3455.7	3694.8
15°	2418.7	2427.5	2398.7	2397.1	2448.3	2471.4	2629.8	2855.2	3134.3	3467.7	3761.1
17.5°	2561.8	2563.4	2487.4	2439.5	2470.6	2482.6	2601.0	2808.9	3106.3	3494.9	3844.3
20°	2763.3	2759.3	2625.0	2545.0	2561.8	2565.0	2641.7	2809.7	3103.9	3542.0	3952.2
22.5°	3030.3	3000.7	2820.0	2711.3	2707.3	2702.5	2746.5	2868.8	3139.1	3618.8	4081.0
25°	3378.9	3351.0	3102.3	2953.6	2921.6	2909.6	2916.0	2995.1	3208.6	3701.2	4224.9
27.5°	3766.7	3718.0	3478.1	3267.8	3201.4	3184.6	3146.3	3173.5	3284.6	3780.3	4396.0
30°	4091.3	4065.0	3855.5	3606.0	3527.7	3503.7	3402.9	3373.3	3394.1	3888.3	4611.9
32.5°	4272.8	4255.3	4128.1	3926.6	3853.9	3820.3	3678.0	3618.8	3570.0	4058.6	4904.5
35°	4492.7	4481.5	4404.8	4258.5	4150.5	4115.3	4005.0	3943.4	3817.9	4292.8	5282.7
37.5°	4772.6	4760.6	4762.2	4643.8	4515.1	4482.3	4409.6	4344.8	4139.3	4600.7	5693.7
40°	5089.2	5066.0	5057.2	5051.6	4970.1	4951.7	4913.3	4825.3	4542.3	4968.5	6099.0
42.5°	5565.7	5483.4	5307.5	5373.8	5454.6	5445.0	5476.2	5349.9	4990.0	5403.4	6494.8
45°	6025.5	5890.4	5586.5	5600.9	5777.6	5831.2	6064.7	5975.1	5475.4	5880.0	6904.2
47.5°	6235.0	6132.6	5874.4	5875.2	6050.3	6161.4	6673.1	6609.2	5985.5	6421.3	7403.9
50°	6469.2	6366.9	6135.0	6222.2	6374.9	6493.2	7260.8	7228.0	6470.8	7013.7	8002.8
52.5°	6725.1	6551.6	6404.5	6560.4	6774.7	6912.2	7849.3	7759.7	6916.2	7610.2	8691.2
55°	6728.3	6681.1	6793.1	6907.4	7228.0	7396.7	8465.7	8229.1	7279.2	8196.3	9251.7
57.5°	7111.3	7034.5	7272.0	7324.8	7743.7	7934.0	9079.0	8637.6	7648.6	8645.6	9553.9
60°	7618.2	7552.6	7746.9	7886.1	8381.8	8636.0	9733.8	9057.4	7938.8	8984.6	9539.5
62.5°	8493.7	8419.4	8417.0	8612.1	9279.7	9575.5	10468.6	9469.2	8054.0	9051.8	9132.6
65°	9775.4	9657.1	9434.0	9526.7	10519.8	10814.8	11289.8	9767.4	7902.0	8692.0	8084.3
67.5°	11022.7	11018.7	10744.5	10934.8	12157.3	12394.0	12225.3	9797.0	7427.9	7439.1	6224.6
70°	12266.0	12282.0	12235.7	12897.7	14369.7	14615.9	13221.5	9399.6	6362.1	5372.2	3729.1
72.5°	13251.1	13247.1	13480.6	15187.6	17240.9	17185.7	14061.1	8195.5	4567.9	2900.0	1782.2
75°	12613.0	12473.9	13169.5	16321.4	18914.4	18644.9	13347.0	5716.8	2370.7	1320.1	959.5
77.5°	8226.7	8358.6	9379.6	13483.0	16544.5	16216.7	9792.2	2667.3	1117.0	865.9	695.6
80°	2979.2	3118.3	4392.0	7637.4	11398.5	11344.9	4822.1	1096.2	755.6	654.0	506.9
82.5°	1025.0	1076.2	1732.6	3391.7	6435.7	6675.5	1814.2	622.9	549.3	463.7	347.0
85°	402.2	460.5	792.4	1631.9	3246.2	3270.2	734.8	372.6	382.2	303.8	190.3
87.5°	152.7	185.5	379.0	758.0	1482.4	1361.6	263.1	177.5	217.5	180.7	90.4
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: P318858

CATALOG NUMBER: GAN-SA4D-827-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0
2.5°	3623.6	3640.4	3675.6	3699.6	3725.1	3732.3	3735.5	3741.9	3748.3	3745.9	3746.7
5°	3646.0	3678.8	3735.5	3759.5	3770.7	3757.9	3733.1	3713.2	3698.8	3690.8	3688.4
7.5°	3682.8	3729.1	3789.9	3785.9	3760.3	3703.6	3639.6	3591.6	3551.6	3537.3	3529.3
10°	3731.5	3785.9	3828.3	3782.7	3708.4	3610.0	3514.1	3439.7	3379.7	3356.5	3352.6
12.5°	3793.9	3849.1	3857.1	3760.3	3637.2	3502.9	3372.5	3274.2	3184.6	3155.9	3149.5
15°	3874.7	3926.6	3877.1	3721.1	3549.2	3368.5	3199.8	3066.3	2972.0	2936.8	2924.0
17.5°	3959.4	4009.0	3881.1	3656.4	3434.1	3209.4	2997.5	2860.8	2752.9	2712.1	2707.3
20°	4061.0	4083.3	3864.3	3563.6	3275.8	3003.1	2780.1	2651.3	2593.8	2565.0	2561.8
22.5°	4186.5	4162.5	3825.9	3438.1	3075.1	2764.9	2583.4	2523.4	2509.0	2502.6	2505.0
25°	4319.2	4245.7	3769.1	3274.2	2821.6	2526.6	2439.5	2456.2	2475.4	2473.0	2473.0
27.5°	4465.5	4330.4	3682.0	3056.7	2541.0	2331.5	2341.9	2403.5	2432.3	2431.5	2430.7
30°	4653.4	4426.4	3570.8	2795.3	2278.7	2194.0	2257.2	2332.3	2371.5	2369.9	2370.7
32.5°	4884.5	4531.9	3419.7	2503.4	2089.2	2092.4	2165.2	2239.6	2285.1	2281.1	2281.9
35°	5154.8	4650.2	3215.0	2215.6	1963.7	2011.7	2069.3	2121.2	2164.4	2158.8	2153.2
37.5°	5449.0	4766.2	2943.2	1958.1	1861.4	1936.5	1984.5	1993.3	2013.3	1998.9	1988.5
40°	5728.8	4854.9	2593.0	1747.0	1758.2	1872.6	1903.8	1868.6	1832.6	1827.8	1813.4
42.5°	5972.7	4884.5	2238.8	1578.3	1649.5	1805.4	1824.6	1751.0	1686.3	1655.9	1643.1
45°	6230.2	4894.9	1908.5	1436.8	1544.7	1745.4	1766.2	1667.9	1576.7	1511.2	1489.6
47.5°	6566.8	4970.1	1651.9	1332.1	1464.8	1705.5	1735.0	1601.5	1483.2	1389.6	1369.6
50°	7007.3	5118.8	1443.2	1252.1	1412.8	1679.1	1712.7	1536.8	1406.4	1293.7	1273.7
52.5°	7496.7	5255.5	1274.5	1187.3	1362.4	1632.7	1683.9	1490.4	1334.5	1204.9	1183.3
55°	7838.9	5150.8	1138.6	1120.2	1296.9	1566.3	1643.9	1451.2	1231.3	1118.6	1099.4
57.5°	7904.4	4792.6	1035.4	1050.6	1217.7	1483.2	1582.3	1364.0	1175.4	1081.0	1061.0
60°	7725.3	4293.6	958.7	986.7	1133.0	1378.4	1467.2	1302.5	1121.8	1041.0	1024.2
62.5°	7275.2	3782.7	901.9	929.1	1053.8	1272.1	1395.2	1237.7	1067.4	995.5	978.7
65°	6366.1	3175.8	847.5	877.9	980.3	1180.1	1330.5	1177.8	1013.8	958.7	942.7
67.5°	4805.4	2378.7	796.4	823.5	914.7	1100.2	1260.1	1118.6	961.9	926.7	907.5
70°	2829.6	1489.6	738.0	766.8	845.9	1017.0	1184.9	1053.8	897.1	881.1	856.3
72.5°	1316.9	896.3	671.6	699.6	759.6	905.9	1088.2	969.1	820.3	785.2	751.6
75°	786.0	655.6	593.3	618.1	660.4	787.6	966.7	882.7	747.6	701.2	666.0
77.5°	587.7	501.3	506.9	533.3	567.7	689.2	856.3	814.8	691.6	655.6	631.7
80°	423.0	380.6	413.4	442.2	478.1	626.9	820.3	753.2	625.3	577.3	554.9
82.5°	282.2	273.4	311.0	340.6	375.8	548.5	770.8	659.6	534.1	473.3	423.8
85°	155.9	164.7	209.5	222.3	252.7	386.2	631.7	530.1	402.2	323.8	309.4
87.5°	64.8	76.0	112.7	108.7	134.3	230.3	415.8	319.8	255.9	191.1	148.7
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)