

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: P318840

Luminaire Tested: **GAN-SA6B-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318840
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-SA6B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA 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: 25276 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

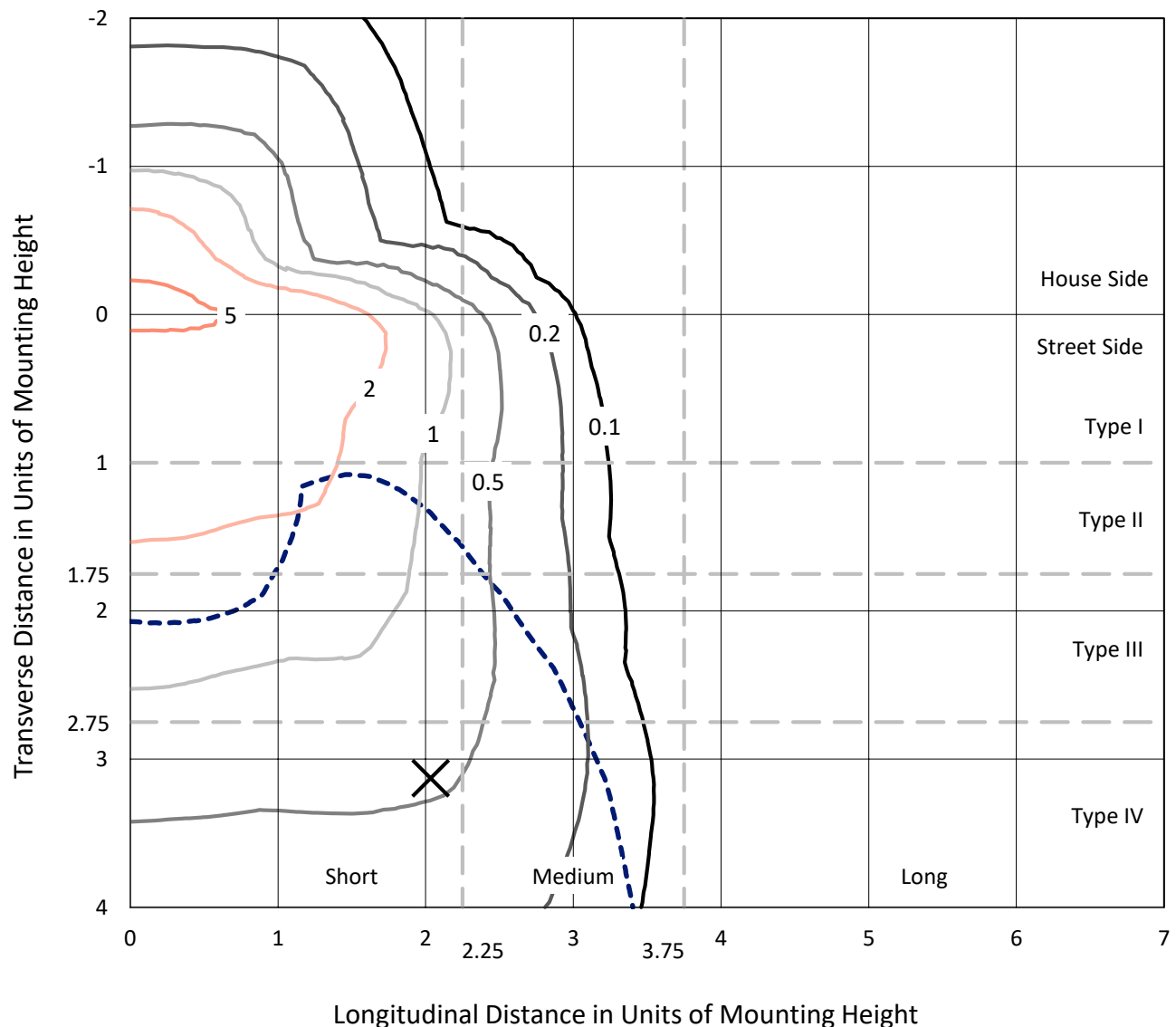
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318840
 CATALOG NUMBER: GAN-SA6B-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

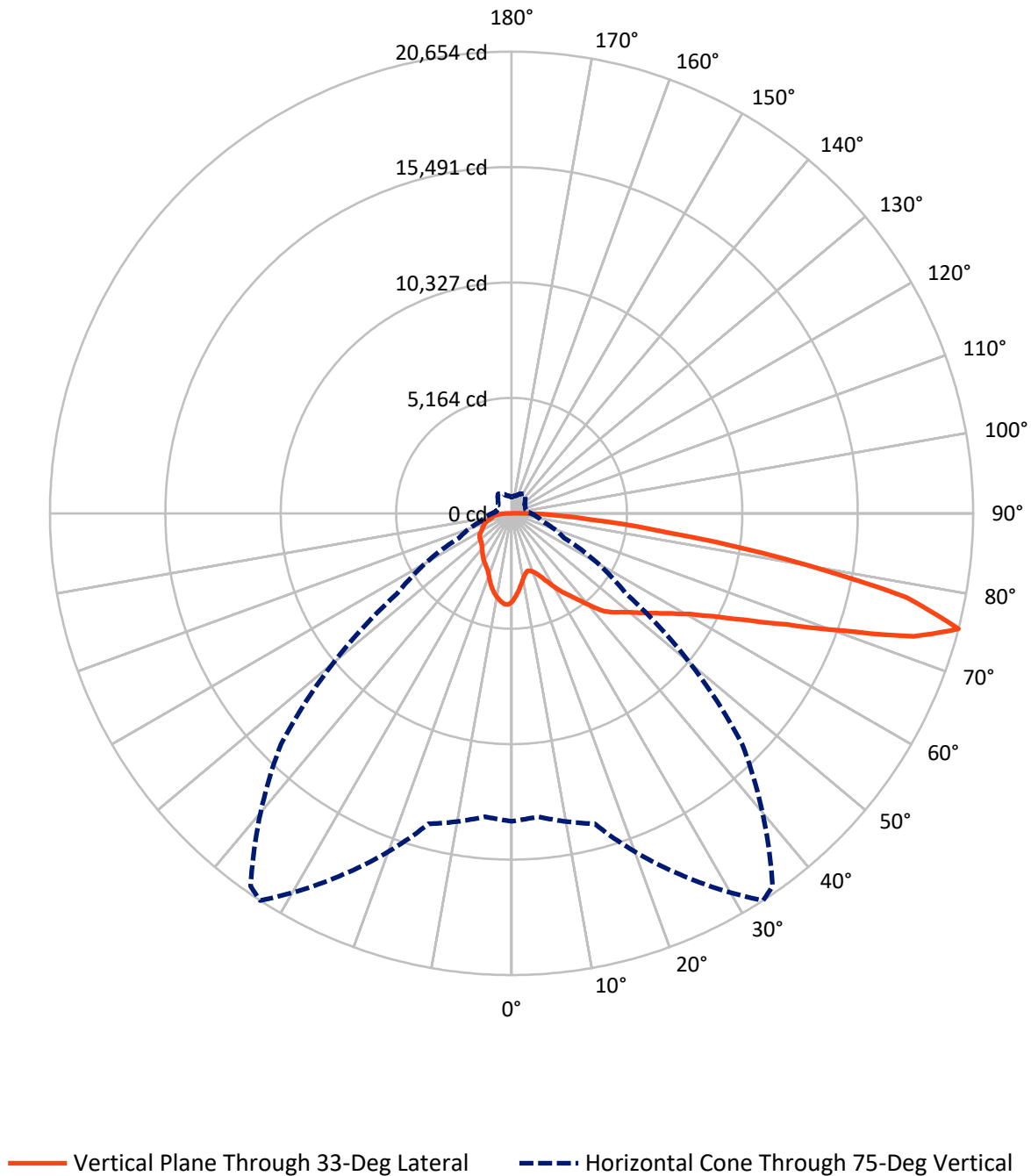
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P318840
CATALOG NUMBER: GAN-SA6B-827-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P318840

CATALOG NUMBER: GAN-SA6B-827-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5427.4	0.0	5427.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	19848.6	0.0	19848.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	25276.0	0.0	25276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	1.4
10°-20°	967.7	3.8
20°-30°	1580.4	6.3
30°-40°	2353.6	9.3
40°-50°	3375.7	13.4
50°-60°	4634.4	18.3
60°-70°	5802.0	23.0
70°-80°	5248.8	20.8
80°-90°	956.1	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°	25276.0	100.0
0°-180°	25276.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318840

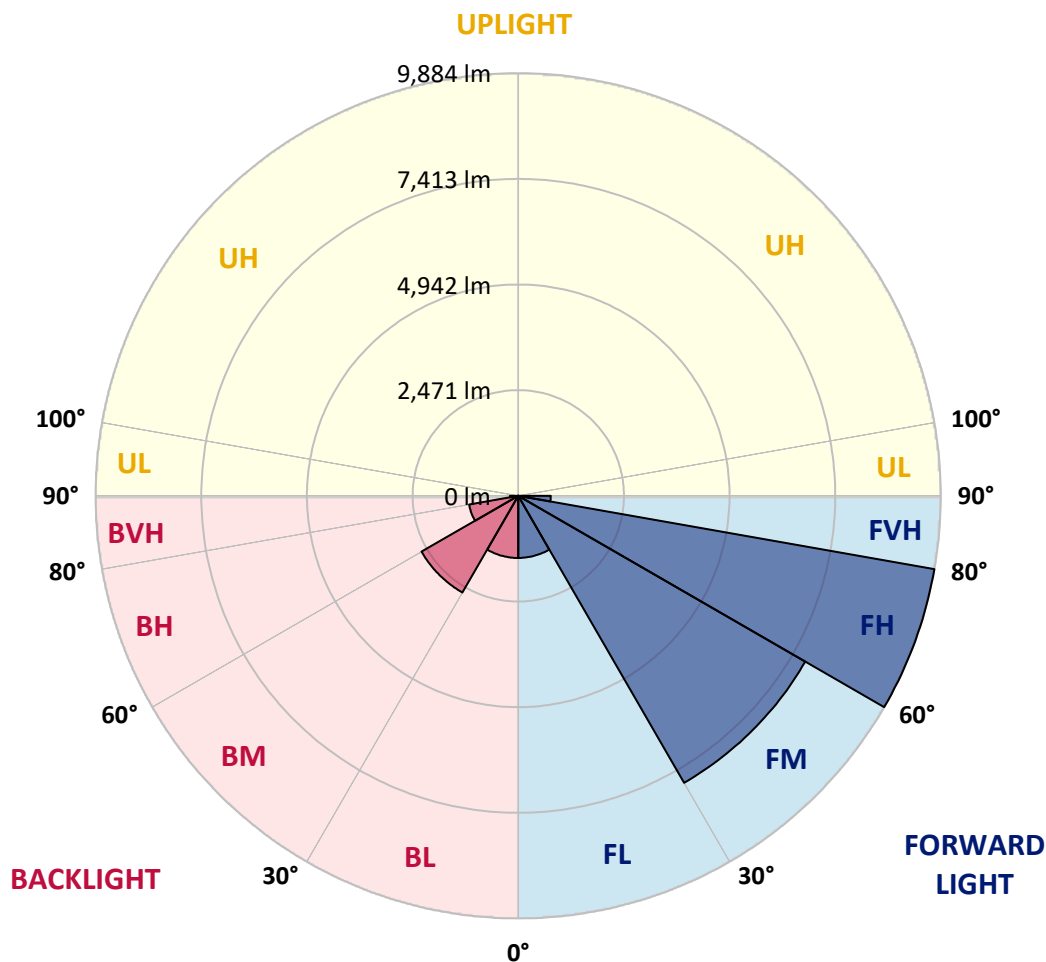
CATALOG NUMBER: GAN-SA6B-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1451.7	5.7			
FM	(30°-60°)	7751.6	30.7			
FH	(60°-80°)	9883.8	39.1			G4/12000
FVH	(80°-90°)	761.4	3.0			G5
BL	(0°-30°)	1453.7	5.8	B3/2500		
BM	(30°-60°)	2612.1	10.3	B3/5000		
BH	(60°-80°)	1167.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	194.6	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-G5

Type IV Short





REPORT NUMBER: P318840

CATALOG NUMBER: GAN-SA6B-827-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8
2.5°	3668.8	3654.8	3681.0	3684.5	3707.2	3715.9	3747.3	3796.2	3836.4	3882.7	3924.6
5°	3336.1	3326.5	3363.2	3389.4	3439.1	3460.1	3534.3	3638.2	3730.8	3835.5	3930.7
7.5°	3020.1	3014.8	3055.9	3115.2	3172.8	3201.7	3330.0	3481.1	3635.6	3805.0	3950.8
10°	2753.8	2752.0	2791.3	2849.8	2934.5	2966.8	3132.7	3331.8	3548.3	3781.4	3984.8
12.5°	2604.5	2610.6	2628.9	2677.8	2756.4	2788.7	2972.9	3206.9	3474.9	3773.5	4034.6
15°	2641.1	2650.7	2619.3	2617.6	2673.4	2698.8	2871.6	3117.8	3422.6	3786.6	4107.1
17.5°	2797.4	2799.2	2716.2	2663.8	2697.9	2711.0	2840.2	3067.2	3392.0	3816.3	4197.9
20°	3017.4	3013.1	2866.4	2779.1	2797.4	2800.9	2884.7	3068.1	3389.4	3867.8	4315.7
22.5°	3309.1	3276.7	3079.4	2960.7	2956.3	2951.1	2999.1	3132.7	3427.8	3951.7	4456.3
25°	3689.7	3659.2	3387.6	3225.2	3190.3	3177.2	3184.2	3270.6	3503.8	4041.6	4613.5
27.5°	4113.2	4059.9	3798.0	3568.4	3495.9	3477.6	3435.7	3465.3	3586.7	4128.0	4800.3
30°	4467.7	4438.8	4210.1	3937.7	3852.1	3825.9	3715.9	3683.6	3706.3	4245.9	5036.0
32.5°	4665.8	4646.6	4507.8	4287.8	4208.3	4171.7	4016.3	3951.7	3898.4	4431.9	5355.6
35°	4906.0	4893.7	4809.9	4650.1	4532.3	4493.8	4373.4	4306.1	4169.1	4687.7	5768.6
37.5°	5211.5	5198.4	5200.2	5071.0	4930.4	4894.6	4815.2	4744.4	4520.0	5023.8	6217.3
40°	5557.3	5532.0	5522.4	5516.3	5427.2	5407.1	5365.2	5269.2	4960.1	5425.4	6660.0
42.5°	6077.7	5987.7	5795.6	5868.1	5956.3	5945.8	5979.9	5841.9	5449.0	5900.4	7092.2
45°	6579.7	6432.1	6100.4	6116.1	6309.0	6367.5	6622.5	6524.7	5979.0	6420.8	7539.2
47.5°	6808.4	6696.7	6414.7	6415.5	6606.8	6728.1	7286.9	7217.1	6536.0	7011.9	8084.9
50°	7064.3	6952.5	6699.3	6794.5	6961.2	7090.5	7928.6	7892.8	7066.0	7658.8	8738.9
52.5°	7343.6	7154.2	6993.5	7163.8	7397.8	7548.0	8571.2	8473.4	7552.3	8310.2	9490.6
55°	7347.1	7295.6	7417.9	7542.7	7892.8	8077.1	9244.4	8986.0	7948.7	8950.2	10102.6
57.5°	7765.4	7681.5	7940.9	7998.5	8456.0	8663.8	9914.1	9432.1	8352.1	9440.8	10432.7
60°	8318.9	8247.3	8459.5	8611.4	9152.7	9430.4	10629.1	9890.5	8669.0	9811.0	10417.0
62.5°	9274.9	9193.8	9191.1	9404.2	10133.2	10456.3	11431.5	10340.1	8794.7	9884.4	9972.6
65°	10674.5	10545.3	10301.7	10403.0	11487.4	11809.6	12328.2	10665.8	8628.9	9491.5	8827.9
67.5°	12036.6	12032.2	11732.7	11940.5	13275.5	13533.9	13349.7	10698.1	8111.1	8123.3	6797.1
70°	13394.2	13411.7	13361.1	14084.0	15691.4	15960.3	14437.6	10264.2	6947.3	5866.4	4072.1
72.5°	14469.9	14465.5	14720.5	16584.5	18826.7	18766.4	15354.3	8949.3	4988.0	3166.7	1946.1
75°	13773.2	13621.2	14380.8	17822.6	20654.1	20359.8	14574.7	6242.7	2588.7	1441.5	1047.7
77.5°	8983.3	9127.4	10242.3	14723.1	18066.2	17708.2	10692.9	2912.7	1219.7	945.6	759.6
80°	3253.2	3405.1	4795.9	8339.9	12446.9	12388.4	5265.7	1197.0	825.1	714.2	553.5
82.5°	1119.3	1175.2	1892.0	3703.7	7027.6	7289.5	1981.1	680.1	599.8	506.4	378.9
85°	439.2	502.9	865.2	1782.0	3544.8	3571.0	802.4	406.9	417.3	331.8	207.8
87.5°	166.8	202.6	413.8	827.7	1618.7	1486.9	287.3	193.8	237.5	197.3	98.7
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: P318840

CATALOG NUMBER: GAN-SA6B-827-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8
2.5°	3956.9	3975.2	4013.6	4039.8	4067.8	4075.6	4079.1	4086.1	4093.1	4090.5	4091.3
5°	3981.3	4017.1	4079.1	4105.3	4117.5	4103.6	4076.5	4054.7	4039.0	4030.2	4027.6
7.5°	4021.5	4072.1	4138.5	4134.1	4106.2	4044.2	3974.4	3922.0	3878.3	3862.6	3853.9
10°	4074.8	4134.1	4180.4	4130.6	4049.4	3942.0	3837.3	3756.1	3690.6	3665.3	3660.9
12.5°	4142.9	4203.1	4211.8	4106.2	3971.7	3825.1	3682.7	3575.3	3477.6	3446.1	3439.1
15°	4231.0	4287.8	4233.7	4063.4	3875.7	3678.4	3494.1	3348.3	3245.3	3206.9	3192.9
17.5°	4323.6	4377.7	4238.0	3992.7	3750.0	3504.6	3273.3	3124.0	3006.1	2961.6	2956.3
20°	4434.5	4458.9	4219.7	3891.4	3577.1	3279.4	3035.8	2895.2	2832.3	2800.9	2797.4
22.5°	4571.6	4545.4	4177.8	3754.3	3357.9	3019.2	2821.0	2755.5	2739.8	2732.8	2735.4
25°	4716.5	4636.2	4115.8	3575.3	3081.2	2759.0	2663.8	2682.2	2703.1	2700.5	2700.5
27.5°	4876.3	4728.7	4020.6	3337.9	2774.7	2546.0	2557.3	2624.5	2656.0	2655.1	2654.2
30°	5081.4	4833.5	3899.3	3052.4	2488.3	2395.8	2464.8	2546.8	2589.6	2587.9	2588.7
32.5°	5333.8	4948.7	3734.3	2733.7	2281.4	2284.9	2364.4	2445.6	2495.3	2491.0	2491.8
35°	5628.9	5078.0	3510.7	2419.4	2144.3	2196.7	2259.6	2316.3	2363.5	2357.4	2351.3
37.5°	5950.2	5204.6	3213.9	2138.2	2032.6	2114.6	2167.0	2176.6	2198.5	2182.8	2171.4
40°	6255.8	5301.5	2831.5	1907.7	1919.9	2044.8	2078.9	2040.4	2001.1	1995.9	1980.2
42.5°	6522.1	5333.8	2444.7	1723.5	1801.2	1971.5	1992.4	1912.1	1841.4	1808.2	1794.2
45°	6803.2	5345.1	2084.1	1569.0	1686.8	1906.0	1928.7	1821.3	1721.8	1650.2	1626.6
47.5°	7170.8	5427.2	1803.8	1454.6	1599.5	1862.3	1894.6	1748.8	1619.6	1517.4	1495.6
50°	7651.9	5589.6	1575.9	1367.3	1542.8	1833.5	1870.2	1678.1	1535.8	1412.7	1390.8
52.5°	8186.2	5738.9	1391.7	1296.6	1487.8	1782.9	1838.8	1627.5	1457.2	1315.8	1292.2
55°	8559.9	5624.5	1243.3	1223.2	1416.2	1710.4	1795.1	1584.7	1344.6	1221.5	1200.5
57.5°	8631.5	5233.4	1130.7	1147.3	1329.7	1619.6	1727.9	1489.5	1283.5	1180.4	1158.6
60°	8435.9	4688.6	1046.8	1077.4	1237.2	1505.2	1602.1	1422.3	1225.0	1136.8	1118.4
62.5°	7944.3	4130.6	984.9	1014.5	1150.7	1389.1	1523.6	1351.6	1165.6	1087.0	1068.7
65°	6951.6	3468.0	925.5	958.7	1070.4	1288.7	1452.8	1286.1	1107.1	1046.8	1029.4
67.5°	5247.3	2597.5	869.6	899.3	998.8	1201.4	1376.0	1221.5	1050.3	1011.9	991.0
70°	3089.9	1626.6	805.9	837.3	923.7	1110.6	1293.9	1150.7	979.6	962.2	935.1
72.5°	1438.0	978.7	733.4	764.0	829.4	989.2	1188.3	1058.2	895.8	857.4	820.7
75°	858.3	715.9	647.8	674.9	721.2	860.0	1055.6	963.9	816.3	765.7	727.3
77.5°	641.7	547.4	553.5	582.4	619.9	752.6	935.1	889.7	755.2	715.9	689.7
80°	461.9	415.6	451.4	482.8	522.1	684.5	895.8	822.5	682.8	630.4	605.9
82.5°	308.2	298.6	339.6	371.9	410.4	598.9	841.7	720.3	583.2	516.9	462.7
85°	170.3	179.9	228.8	242.7	275.9	421.7	689.7	578.9	439.2	353.6	337.9
87.5°	70.7	82.9	123.1	118.7	146.7	251.5	454.0	349.2	279.4	208.7	162.4
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)