

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: P318881

Luminaire Tested: **GAN-SA7B-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318881
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-SA7B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 32313 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

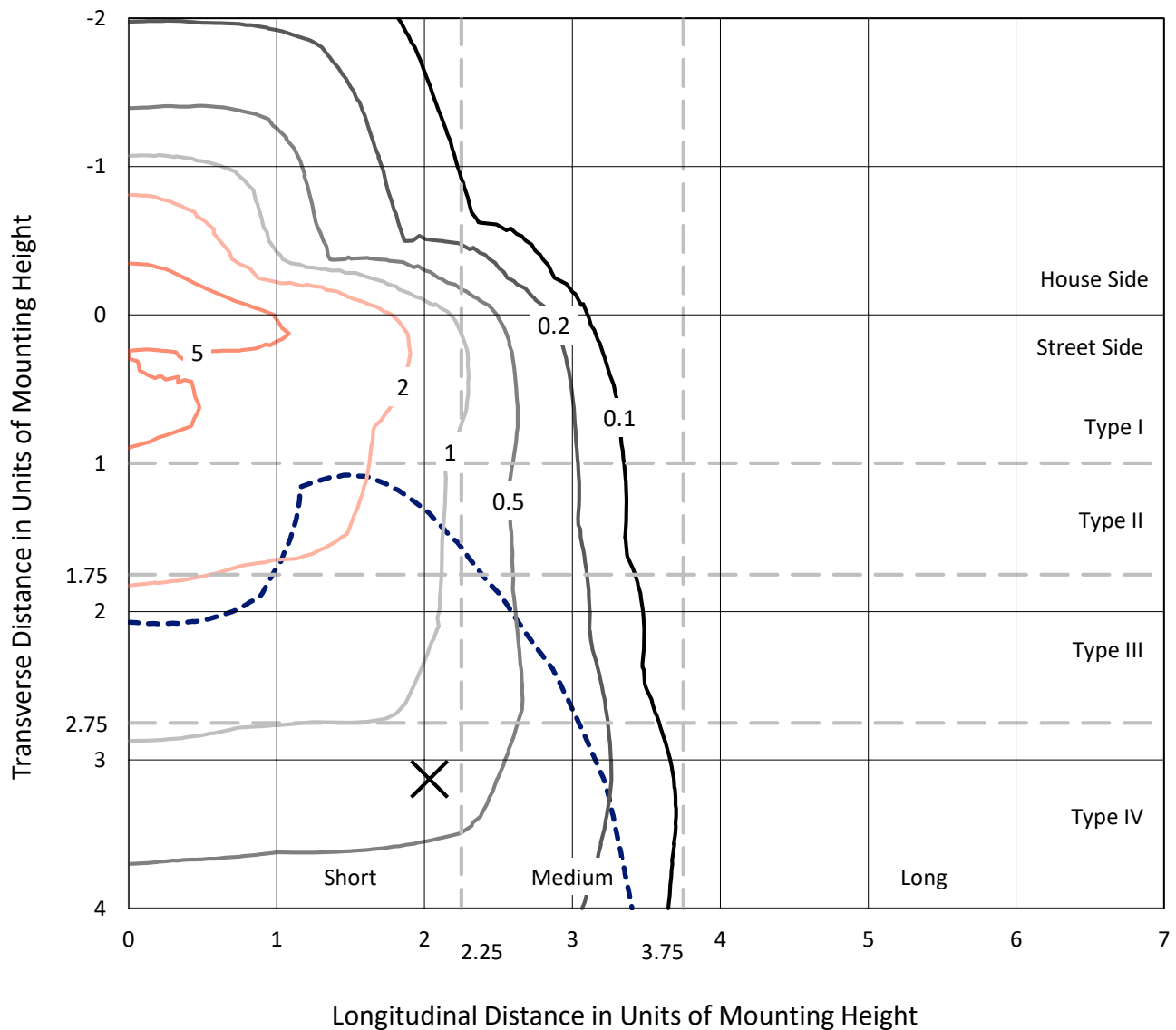
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318881
 CATALOG NUMBER: GAN-SA7B-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

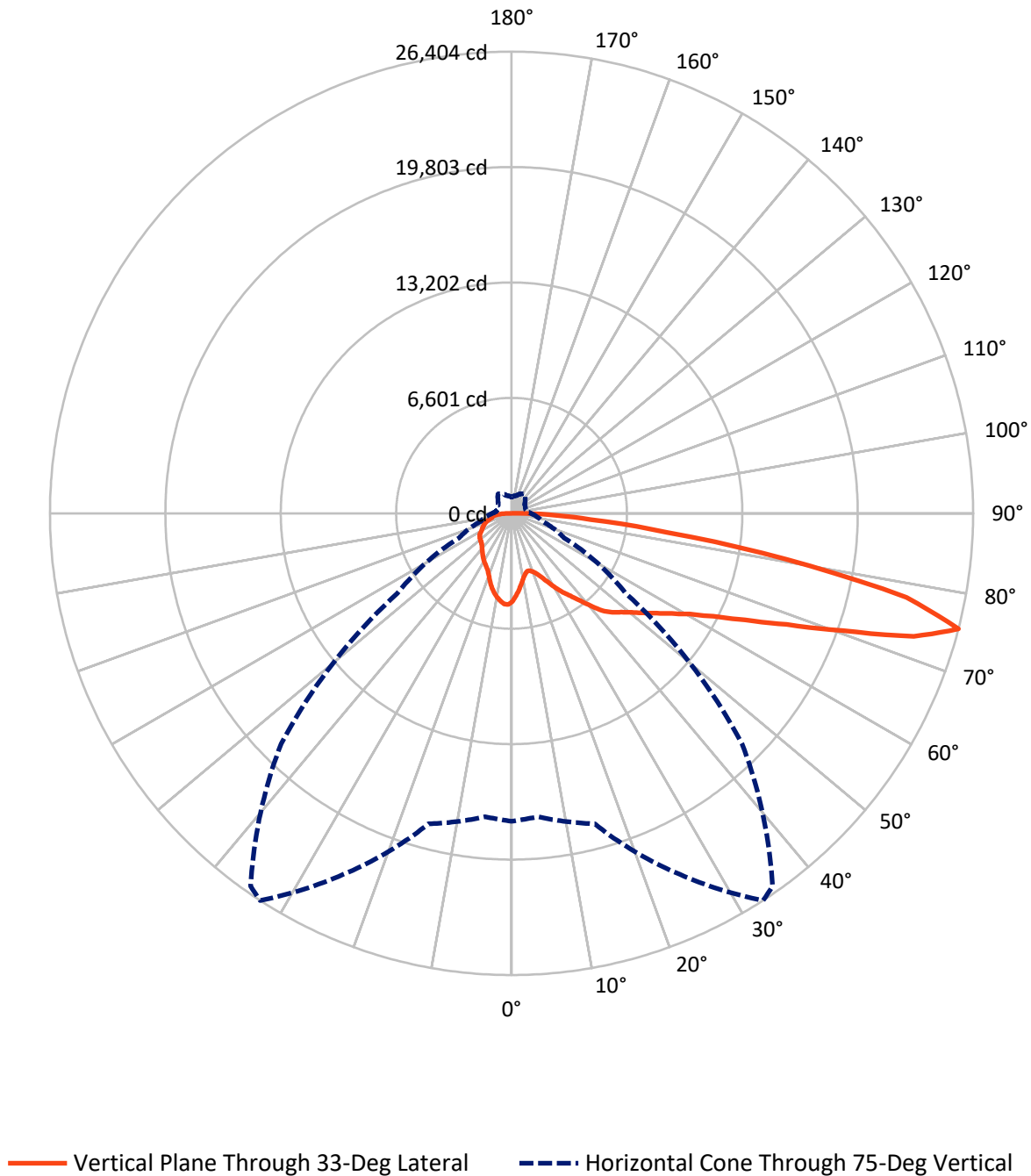
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P318881
CATALOG NUMBER: GAN-SA7B-830-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P318881

CATALOG NUMBER: GAN-SA7B-830-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6938.4	0.0	6938.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	25374.6	0.0	25374.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	32313.0	0.0	32313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.8	1.4
10°-20°	1237.1	3.8
20°-30°	2020.4	6.3
30°-40°	3008.9	9.3
40°-50°	4315.5	13.4
50°-60°	5924.6	18.3
60°-70°	7417.3	23.0
70°-80°	6710.1	20.8
80°-90°	1222.3	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°	32313.0	100.0
0°-180°	32313.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318881

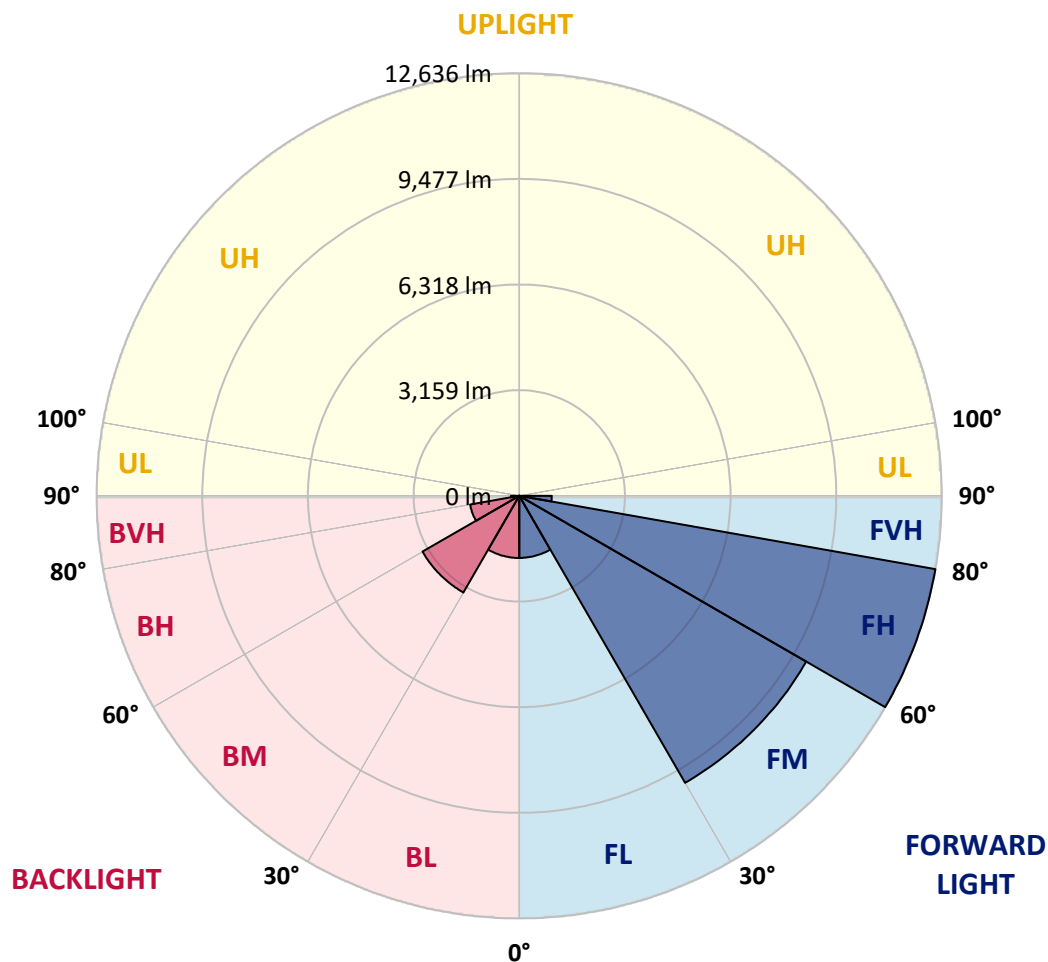
CATALOG NUMBER: GAN-SA7B-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1855.9	5.7			
FM	(30°-60°)	9909.7	30.7			
FH	(60°-80°)	12635.5	39.1			G5
FVH	(80°-90°)	973.4	3.0			G5
BL	(0°-30°)	1858.4	5.8	B3/2500		
BM	(30°-60°)	3339.3	10.3	B3/5000		
BH	(60°-80°)	1491.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	248.8	0.8			G3/500
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: P318881

CATALOG NUMBER: GAN-SA7B-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7
2.5°	4690.2	4672.3	4705.8	4710.3	4739.3	4750.5	4790.6	4853.1	4904.5	4963.6	5017.2
5°	4264.9	4252.6	4299.5	4333.0	4396.6	4423.4	4518.3	4651.1	4769.4	4903.4	5025.0
7.5°	3860.9	3854.2	3906.6	3982.5	4056.2	4093.0	4257.1	4450.2	4647.8	4864.3	5050.7
10°	3520.4	3518.2	3568.4	3643.2	3751.5	3792.8	4004.8	4259.3	4536.1	4834.2	5094.2
12.5°	3329.6	3337.4	3360.8	3423.3	3523.8	3565.1	3800.6	4099.7	4442.4	4824.1	5157.9
15°	3376.4	3388.7	3348.5	3346.3	3417.7	3450.1	3671.1	3985.9	4375.4	4840.9	5250.5
17.5°	3576.2	3578.5	3472.4	3405.5	3449.0	3465.7	3630.9	3921.1	4336.3	4878.8	5366.6
20°	3857.5	3851.9	3664.4	3552.8	3576.2	3580.7	3687.9	3922.2	4333.0	4944.7	5517.3
22.5°	4230.3	4189.0	3936.8	3785.0	3779.4	3772.7	3834.1	4004.8	4382.1	5051.8	5697.0
25°	4717.0	4677.9	4330.8	4123.2	4078.5	4061.8	4070.7	4181.2	4479.2	5166.8	5897.9
27.5°	5258.3	5190.2	4855.4	4561.8	4469.2	4445.7	4392.2	4430.1	4585.3	5277.3	6136.7
30°	5711.5	5674.6	5382.2	5034.0	4924.6	4891.1	4750.5	4709.2	4738.2	5428.0	6438.1
32.5°	5964.9	5940.3	5762.8	5481.5	5380.0	5333.1	5134.4	5051.8	4983.7	5665.7	6846.6
35°	6271.8	6256.2	6149.0	5944.8	5794.1	5745.0	5590.9	5505.0	5329.7	5992.8	7374.6
37.5°	6662.5	6645.7	6648.0	6482.8	6303.1	6257.3	6155.7	6065.3	5778.5	6422.5	7948.3
40°	7104.5	7072.1	7059.8	7052.0	6938.2	6912.5	6858.9	6736.1	6341.0	6935.9	8514.2
42.5°	7769.7	7654.7	7409.2	7501.8	7614.6	7601.2	7644.7	7468.3	6966.1	7543.1	9066.7
45°	8411.5	8222.9	7798.7	7818.8	8065.5	8140.3	8466.2	8341.2	7643.6	8208.4	9638.2
47.5°	8704.0	8561.1	8200.6	8201.7	8446.1	8601.3	9315.6	9226.3	8355.7	8964.0	10335.8
50°	9031.0	8888.1	8564.4	8686.1	8899.3	9064.5	10136.0	10090.2	9033.2	9791.1	11171.8
52.5°	9388.2	9146.0	8940.6	9158.2	9457.4	9649.4	10957.5	10832.5	9654.9	10623.8	12132.8
55°	9392.6	9326.8	9483.0	9642.7	10090.2	10325.8	11818.1	11487.7	10161.7	11441.9	12915.3
57.5°	9927.3	9820.1	10151.6	10225.3	10810.2	11075.8	12674.2	12058.1	10677.4	12069.2	13337.2
60°	10634.9	10543.4	10814.6	11008.9	11700.9	12055.8	13588.3	12644.1	11082.5	12542.5	13317.1
62.5°	11857.2	11753.3	11750.0	12022.3	12954.4	13367.3	14614.1	13218.9	11243.3	12636.2	12749.0
65°	13646.4	13481.2	13169.8	13299.3	14685.5	15097.4	15760.4	13635.2	11031.2	12134.0	11285.7
67.5°	15387.6	15382.0	14999.2	15264.8	16971.5	17301.9	17066.4	13676.5	10369.3	10384.9	8689.4
70°	17123.3	17145.6	17080.9	18005.1	20059.9	20403.7	18457.1	13121.8	8881.4	7499.6	5205.9
72.5°	18498.4	18492.8	18818.8	21201.8	24068.1	23991.1	19629.1	11440.8	6376.7	4048.4	2488.0
75°	17607.7	17413.5	18384.6	22784.5	26404.3	26028.1	18632.4	7980.7	3309.5	1842.8	1339.4
77.5°	11484.4	11668.5	13093.9	18822.1	23095.9	22638.3	13669.8	3723.6	1559.3	1208.8	971.1
80°	4158.9	4353.1	6131.2	10661.7	15912.2	15837.4	6731.7	1530.3	1054.8	913.0	707.7
82.5°	1430.9	1502.4	2418.8	4734.8	8984.1	9319.0	2532.6	869.5	766.8	647.4	484.4
85°	561.4	642.9	1106.1	2278.1	4531.7	4565.2	1025.8	520.1	533.5	424.1	265.7
87.5°	213.2	259.0	529.1	1058.1	2069.4	1900.9	367.2	247.8	303.6	252.3	126.1
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: P318881

CATALOG NUMBER: GAN-SA7B-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7	5050.7
2.5°	5058.5	5082.0	5131.1	5164.6	5200.3	5210.3	5214.8	5223.7	5232.6	5229.3	5230.4
5°	5089.8	5135.5	5214.8	5248.3	5263.9	5246.0	5211.4	5183.5	5163.4	5152.3	5148.9
7.5°	5141.1	5205.9	5290.7	5285.1	5249.4	5170.1	5080.8	5013.9	4958.1	4938.0	4926.8
10°	5209.2	5285.1	5344.3	5280.6	5176.8	5039.5	4905.6	4801.8	4718.1	4685.7	4680.1
12.5°	5296.3	5373.3	5384.4	5249.4	5077.5	4890.0	4708.0	4570.7	4445.7	4405.6	4396.6
15°	5409.0	5481.5	5412.3	5194.7	4954.7	4702.5	4466.9	4280.5	4148.8	4099.7	4081.9
17.5°	5527.3	5596.5	5417.9	5104.3	4794.0	4480.3	4184.5	3993.7	3843.0	3786.1	3779.4
20°	5669.1	5700.3	5394.5	4974.8	4573.0	4192.4	3880.9	3701.2	3620.9	3580.7	3576.2
22.5°	5844.3	5810.8	5340.9	4799.6	4292.8	3859.7	3606.4	3522.7	3502.6	3493.6	3497.0
25°	6029.6	5926.9	5261.7	4570.7	3939.0	3527.1	3405.5	3428.9	3455.7	3452.3	3452.3
27.5°	6233.9	6045.2	5140.0	4267.1	3547.2	3254.8	3269.3	3355.2	3395.4	3394.3	3393.2
30°	6496.2	6179.2	4984.8	3902.2	3181.1	3062.8	3151.0	3255.9	3310.6	3308.4	3309.5
32.5°	6818.7	6326.5	4773.9	3494.8	2916.6	2921.0	3022.6	3126.4	3190.0	3184.5	3185.6
35°	7196.0	6491.7	4488.1	3092.9	2741.3	2808.3	2888.7	2961.2	3021.5	3013.7	3005.9
37.5°	7606.7	6653.5	4108.6	2733.5	2598.5	2703.4	2770.4	2782.6	2810.5	2790.4	2775.9
40°	7997.4	6777.4	3619.8	2438.8	2454.5	2614.1	2657.6	2608.5	2558.3	2551.6	2531.5
42.5°	8337.8	6818.7	3125.3	2203.3	2302.7	2520.3	2547.1	2444.4	2354.0	2311.6	2293.7
45°	8697.3	6833.2	2664.3	2005.8	2156.5	2436.6	2465.6	2328.3	2201.1	2109.6	2079.4
47.5°	9167.2	6938.2	2306.0	1859.6	2044.8	2380.8	2422.1	2235.7	2070.5	1939.9	1912.0
50°	9782.2	7145.8	2014.7	1747.9	1972.3	2344.0	2390.9	2145.3	1963.4	1806.0	1778.1
52.5°	10465.3	7336.6	1779.2	1657.5	1902.0	2279.2	2350.7	2080.6	1862.9	1682.1	1651.9
55°	10943.0	7190.4	1589.4	1563.8	1810.4	2186.6	2294.9	2025.9	1718.9	1561.5	1534.7
57.5°	11034.5	6690.4	1445.4	1466.7	1699.9	2070.5	2208.9	1904.2	1640.8	1509.1	1481.2
60°	10784.5	5993.9	1338.3	1377.4	1581.6	1924.3	2048.2	1818.3	1566.0	1453.3	1429.8
62.5°	10156.1	5280.6	1259.0	1297.0	1471.1	1775.8	1947.7	1727.8	1490.1	1389.6	1366.2
65°	8887.0	4433.5	1183.1	1225.6	1368.4	1647.5	1857.3	1644.1	1415.3	1338.3	1316.0
67.5°	6708.2	3320.6	1111.7	1149.7	1276.9	1535.9	1759.1	1561.5	1342.8	1293.6	1266.9
70°	3950.2	2079.4	1030.2	1070.4	1180.9	1419.8	1654.2	1471.1	1252.4	1230.0	1195.4
72.5°	1838.3	1251.2	937.6	976.7	1060.4	1264.6	1519.1	1352.8	1145.2	1096.1	1049.2
75°	1097.2	915.3	828.2	862.8	922.0	1099.4	1349.5	1232.3	1043.6	978.9	929.8
77.5°	820.4	699.8	707.7	744.5	792.5	962.1	1195.4	1137.4	965.5	915.3	881.8
80°	590.5	531.3	577.1	617.2	667.5	875.1	1145.2	1051.4	872.9	805.9	774.6
82.5°	394.0	381.7	434.2	475.5	524.6	765.7	1076.0	920.8	745.6	660.8	591.6
85°	217.7	229.9	292.4	310.3	352.7	539.1	881.8	740.0	561.4	452.1	432.0
87.5°	90.4	106.0	157.4	151.8	187.5	321.5	580.4	446.5	357.2	266.8	207.6
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)