

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: P318848

Luminaire Tested: **GAN-SA4C-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318848
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-SA4C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 21100 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

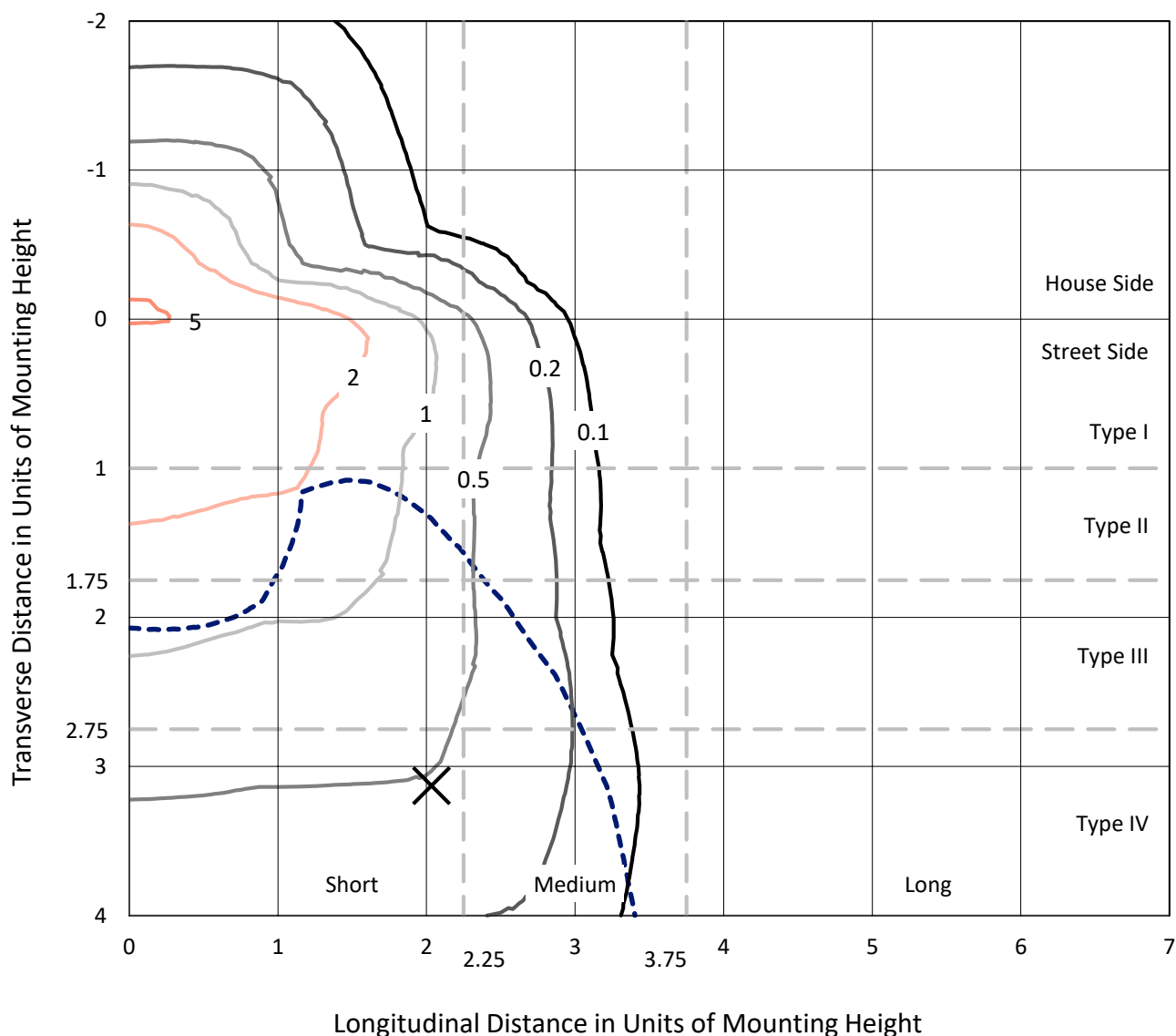
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

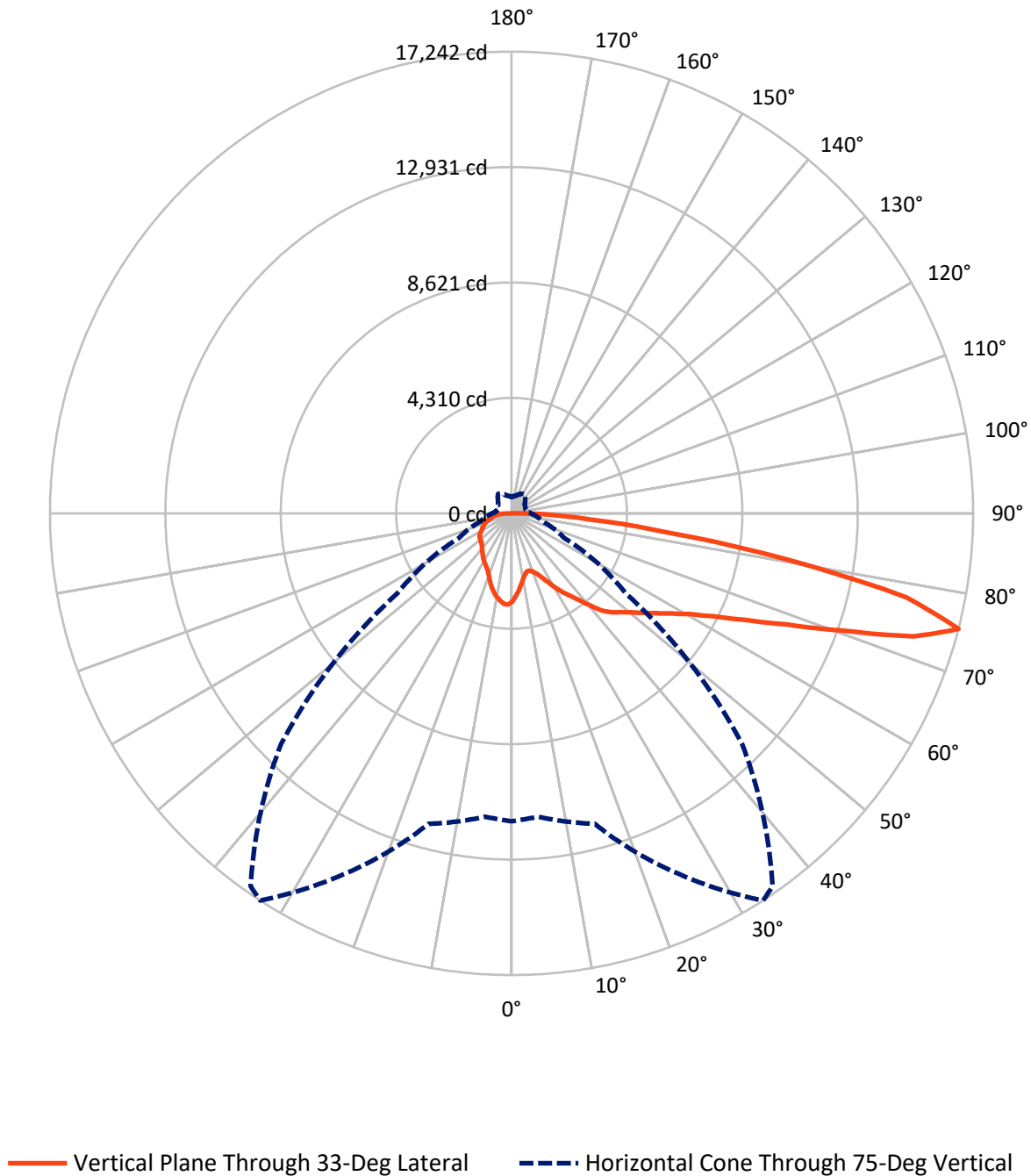
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4530.7	0.0	4530.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	16569.3	0.0	16569.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	21100.0	0.0	21100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.3	1.4
10°-20°	807.8	3.8
20°-30°	1319.3	6.3
30°-40°	1964.8	9.3
40°-50°	2818.0	13.4
50°-60°	3868.7	18.3
60°-70°	4843.4	23.0
70°-80°	4381.6	20.8
80°-90°	798.1	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°	21100.0	100.0
0°-180°	21100.0	100.0

Coefficient of Utilization



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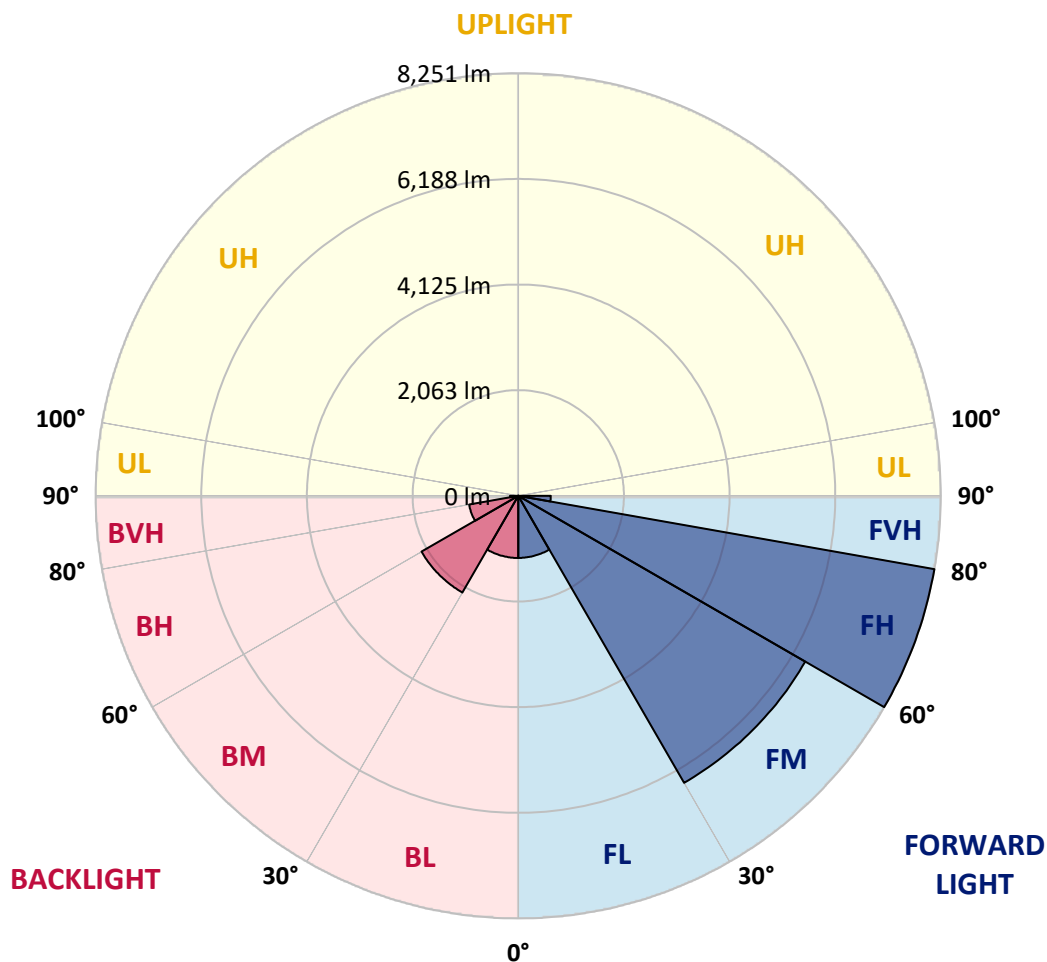
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1211.9	5.7			
FM	(30°-60°)	6470.9	30.7			
FH	(60°-80°)	8250.8	39.1			G4/12000
FVH	(80°-90°)	635.6	3.0			G4/750
BL	(0°-30°)	1213.5	5.8	B3/2500		
BM	(30°-60°)	2180.5	10.3	B2/2500		
BH	(60°-80°)	974.2	4.6	B2/1000		G2/1000
BVH	(80°-90°)	162.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0
2.5°	3062.6	3051.0	3072.8	3075.7	3094.7	3102.0	3128.2	3169.0	3202.6	3241.2	3276.2
5°	2784.9	2776.9	2807.5	2829.4	2870.9	2888.4	2950.4	3037.1	3114.4	3201.8	3281.3
7.5°	2521.1	2516.7	2551.0	2600.5	2648.6	2672.7	2779.8	2905.9	3034.9	3176.3	3298.0
10°	2298.8	2297.3	2330.1	2379.0	2449.7	2476.6	2615.1	2781.3	2962.0	3156.7	3326.5
12.5°	2174.2	2179.3	2194.6	2235.4	2301.0	2327.9	2481.7	2677.1	2900.8	3150.1	3368.0
15°	2204.8	2212.8	2186.6	2185.1	2231.7	2252.9	2397.2	2602.7	2857.1	3161.0	3428.5
17.5°	2335.2	2336.7	2267.5	2223.7	2252.1	2263.1	2371.0	2560.5	2831.6	3185.8	3504.3
20°	2518.9	2515.3	2392.8	2319.9	2335.2	2338.2	2408.1	2561.2	2829.4	3228.8	3602.7
22.5°	2762.3	2735.4	2570.7	2471.5	2467.9	2463.5	2503.6	2615.1	2861.5	3298.8	3720.1
25°	3080.1	3054.6	2827.9	2692.4	2663.2	2652.3	2658.1	2730.3	2924.9	3373.8	3851.2
27.5°	3433.6	3389.2	3170.5	2978.8	2918.3	2903.0	2868.0	2892.8	2994.1	3446.0	4007.2
30°	3729.5	3705.5	3514.5	3287.1	3215.7	3193.8	3102.0	3075.0	3094.0	3544.4	4204.0
32.5°	3895.0	3878.9	3763.1	3579.4	3513.1	3482.4	3352.7	3298.8	3254.3	3699.6	4470.8
35°	4095.4	4085.2	4015.2	3881.9	3783.5	3751.4	3650.8	3594.7	3480.3	3913.2	4815.5
37.5°	4350.5	4339.6	4341.0	4233.2	4115.8	4085.9	4019.6	3960.6	3773.3	4193.8	5190.1
40°	4639.1	4618.0	4610.0	4604.9	4530.5	4513.8	4478.8	4398.6	4140.6	4529.1	5559.7
42.5°	5073.5	4998.5	4838.1	4898.6	4972.2	4963.5	4991.9	4876.7	4548.8	4925.6	5920.5
45°	5492.6	5369.4	5092.5	5105.6	5266.7	5315.5	5528.3	5446.7	4991.2	5360.0	6293.6
47.5°	5683.6	5590.3	5354.9	5355.6	5515.2	5616.5	6083.0	6024.7	5456.2	5853.4	6749.2
50°	5897.1	5803.8	5592.5	5671.9	5811.1	5919.0	6618.7	6588.8	5898.6	6393.5	7295.1
52.5°	6130.4	5972.2	5838.1	5980.2	6175.5	6300.9	7155.1	7073.5	6304.6	6937.2	7922.6
55°	6133.3	6090.3	6192.3	6296.5	6588.8	6742.6	7717.1	7501.3	6635.5	7471.4	8433.5
57.5°	6482.4	6412.4	6628.9	6677.0	7058.9	7232.4	8276.1	7873.8	6972.2	7881.1	8709.0
60°	6944.5	6884.7	7061.8	7188.7	7640.5	7872.3	8873.0	8256.4	7236.8	8190.1	8695.9
62.5°	7742.6	7674.8	7672.6	7850.4	8459.0	8728.7	9542.8	8631.8	7341.7	8251.3	8324.9
65°	8910.9	8803.1	8599.7	8684.3	9589.5	9858.4	10291.4	8903.6	7203.2	7923.3	7369.4
67.5°	10047.9	10044.3	9794.3	9967.8	11082.2	11297.9	11144.1	8930.6	6771.0	6781.2	5674.1
70°	11181.3	11195.9	11153.6	11757.1	13098.9	13323.4	12052.3	8568.4	5799.5	4897.1	3399.4
72.5°	12079.2	12075.6	12288.4	13844.5	15716.2	15665.9	12817.6	7470.7	4163.9	2643.5	1624.6
75°	11497.6	11370.8	12004.9	14878.0	17241.7	16996.1	12166.7	5211.3	2161.0	1203.3	874.6
77.5°	7499.1	7619.4	8550.1	12290.6	15081.4	14782.5	8926.2	2431.4	1018.2	789.3	634.1
80°	2715.7	2842.5	4003.6	6962.0	10390.5	10341.7	4395.7	999.3	688.8	596.2	462.1
82.5°	934.4	981.0	1579.4	3091.8	5866.5	6085.2	1653.8	567.8	500.7	422.7	316.3
85°	366.6	419.8	722.3	1487.6	2959.1	2981.0	669.8	339.6	348.4	277.0	173.5
87.5°	139.2	169.1	345.5	691.0	1351.3	1241.2	239.8	161.8	198.2	164.7	82.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0
2.5°	3303.2	3318.5	3350.5	3372.4	3395.7	3402.3	3405.2	3411.0	3416.9	3414.7	3415.4
5°	3323.6	3353.4	3405.2	3427.1	3437.3	3425.6	3403.0	3384.8	3371.7	3364.4	3362.2
7.5°	3357.1	3399.4	3454.8	3451.1	3427.8	3376.0	3317.7	3274.0	3237.6	3224.4	3217.1
10°	3401.5	3451.1	3489.7	3448.2	3380.4	3290.8	3203.3	3135.5	3080.9	3059.7	3056.1
12.5°	3458.4	3508.7	3516.0	3427.8	3315.5	3193.1	3074.3	2984.6	2903.0	2876.8	2870.9
15°	3532.0	3579.4	3534.2	3392.1	3235.4	3070.6	2916.9	2795.1	2709.1	2677.1	2665.4
17.5°	3609.3	3654.5	3537.8	3333.0	3130.4	2925.6	2732.5	2607.8	2509.4	2472.3	2467.9
20°	3701.8	3722.2	3522.5	3248.5	2986.1	2737.6	2534.2	2416.9	2364.4	2338.2	2335.2
22.5°	3816.3	3794.4	3487.5	3134.1	2803.2	2520.4	2354.9	2300.3	2287.1	2281.3	2283.5
25°	3937.3	3870.2	3435.8	2984.6	2572.1	2303.2	2223.7	2239.0	2256.5	2254.3	2254.3
27.5°	4070.6	3947.5	3356.4	2786.4	2316.3	2125.3	2134.8	2190.9	2217.2	2216.4	2215.7
30°	4241.9	4034.9	3255.0	2548.1	2077.2	2000.0	2057.5	2126.1	2161.8	2160.3	2161.0
32.5°	4452.5	4131.1	3117.3	2282.0	1904.5	1907.4	1973.7	2041.5	2083.1	2079.4	2080.1
35°	4698.9	4239.0	2930.7	2019.6	1790.1	1833.8	1886.3	1933.6	1973.0	1967.9	1962.8
37.5°	4967.1	4344.7	2682.9	1785.0	1696.8	1765.3	1809.0	1817.0	1835.2	1822.1	1812.7
40°	5222.2	4425.6	2363.7	1592.5	1602.7	1707.0	1735.4	1703.3	1670.5	1666.2	1653.0
42.5°	5444.5	4452.5	2040.8	1438.8	1503.6	1645.7	1663.2	1596.2	1537.1	1509.4	1497.8
45°	5679.2	4462.0	1739.8	1309.7	1408.1	1591.1	1610.0	1520.4	1437.3	1377.5	1357.8
47.5°	5986.0	4530.5	1505.8	1214.3	1335.3	1554.6	1581.6	1459.9	1352.0	1266.7	1248.5
50°	6387.6	4666.1	1315.6	1141.4	1287.9	1530.6	1561.2	1400.9	1282.0	1179.3	1161.1
52.5°	6833.7	4790.7	1161.8	1082.3	1242.0	1488.3	1535.0	1358.6	1216.5	1098.4	1078.7
55°	7145.6	4695.3	1037.9	1021.1	1182.2	1427.8	1498.5	1322.9	1122.4	1019.7	1002.2
57.5°	7205.4	4368.7	943.9	957.7	1110.0	1352.0	1442.4	1243.4	1071.4	985.4	967.2
60°	7042.2	3913.9	873.9	899.4	1032.8	1256.5	1337.4	1187.3	1022.6	949.0	933.7
62.5°	6631.8	3448.2	822.1	846.9	960.6	1159.6	1271.8	1128.3	973.0	907.4	892.1
65°	5803.1	2895.0	772.6	800.3	893.6	1075.8	1212.8	1073.6	924.2	873.9	859.3
67.5°	4380.4	2168.3	725.9	750.7	833.8	1002.9	1148.7	1019.7	876.8	844.7	827.2
70°	2579.4	1357.8	672.7	699.0	771.1	927.1	1080.2	960.6	817.8	803.2	780.6
72.5°	1200.4	817.0	612.2	637.7	692.4	825.8	992.0	883.4	747.8	715.7	685.1
75°	716.5	597.7	540.8	563.4	602.0	717.9	881.2	804.7	681.5	639.2	607.1
77.5°	535.7	457.0	462.1	486.1	517.5	628.3	780.6	742.7	630.5	597.7	575.8
80°	385.6	346.9	376.8	403.1	435.9	571.4	747.8	686.6	570.0	526.2	505.8
82.5°	257.3	249.3	283.5	310.5	342.6	500.0	702.6	601.3	486.9	431.5	386.3
85°	142.1	150.1	191.0	202.6	230.3	352.0	575.8	483.2	366.6	295.2	282.1
87.5°	59.0	69.2	102.8	99.1	122.4	209.9	379.0	291.5	233.2	174.2	135.6
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)