

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: P192828

Luminaire Tested: **GAN-AF-10-LED-U-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45101.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 419
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: 28.75 FT



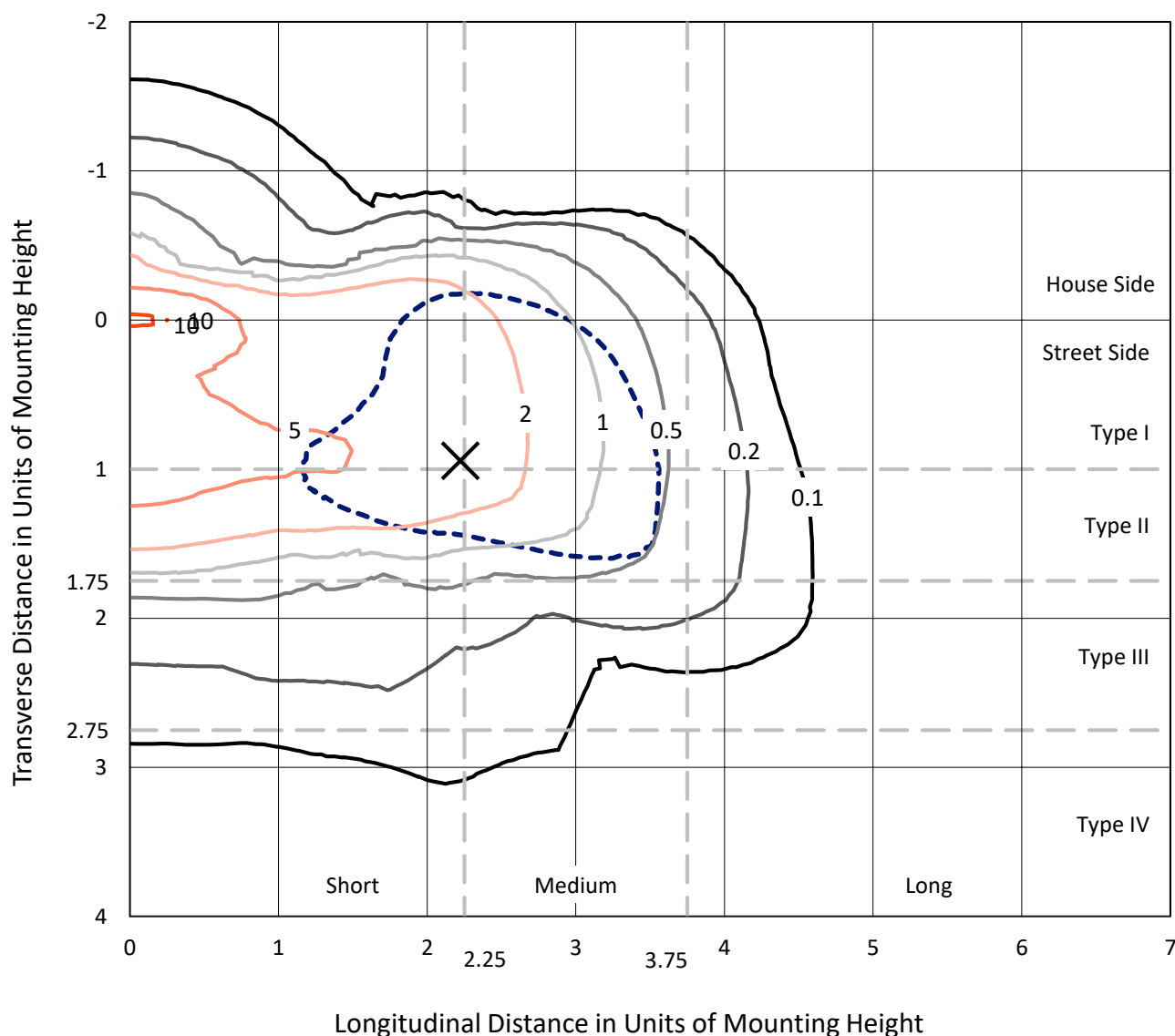
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

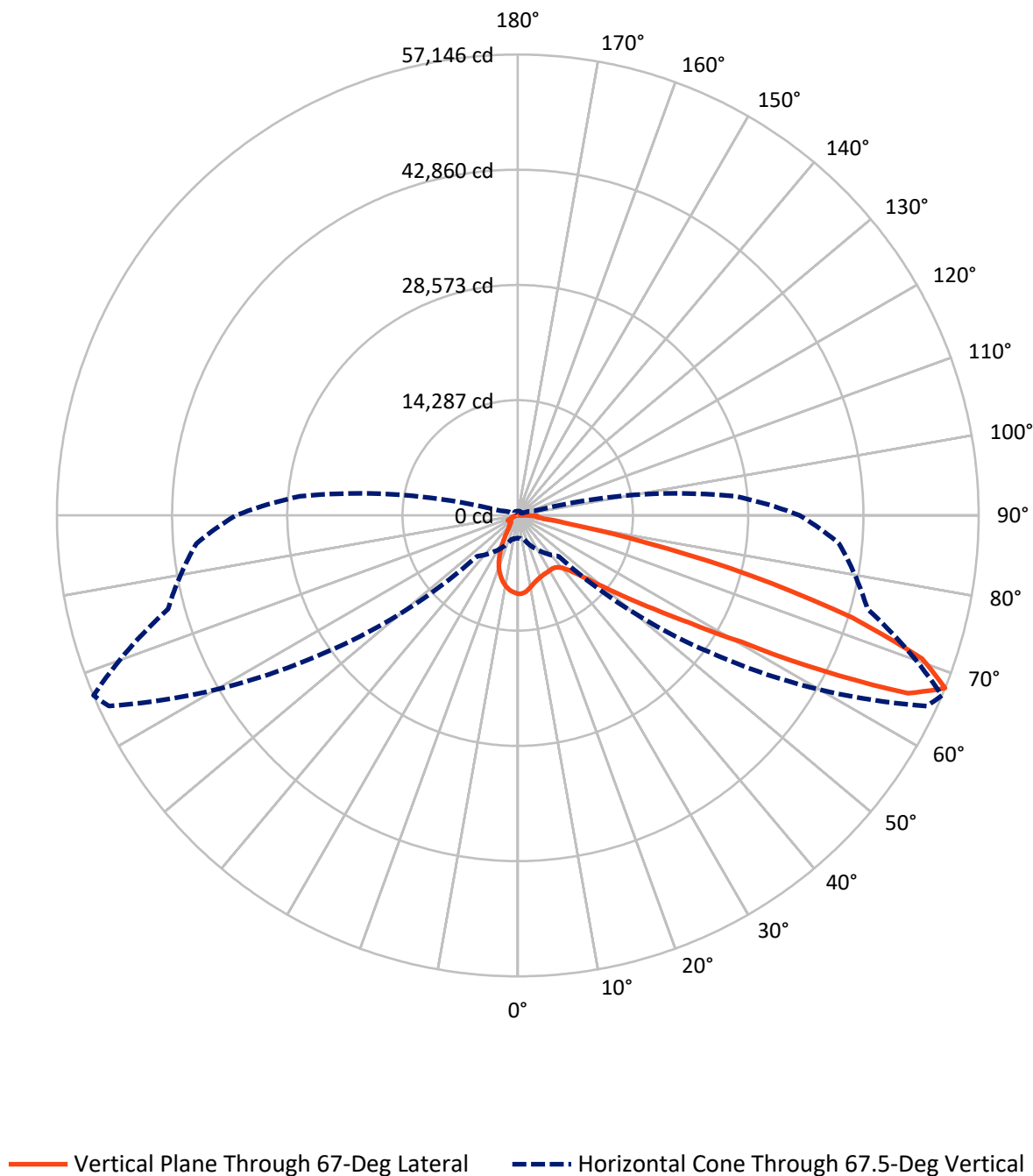


Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7472.7	0.0	7472.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	37628.4	0.0	37628.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	45101.1	0.0	45101.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	830.0	1.8
10°-20°	1920.4	4.3
20°-30°	2603.1	5.8
30°-40°	3700.6	8.2
40°-50°	6191.3	13.7
50°-60°	9794.6	21.7
60°-70°	12477.3	27.7
70°-80°	6535.6	14.5
80°-90°	1048.2	2.3
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°	45101.1	100.0
0°-180°	45101.1	100.0

Coefficient of Utilization



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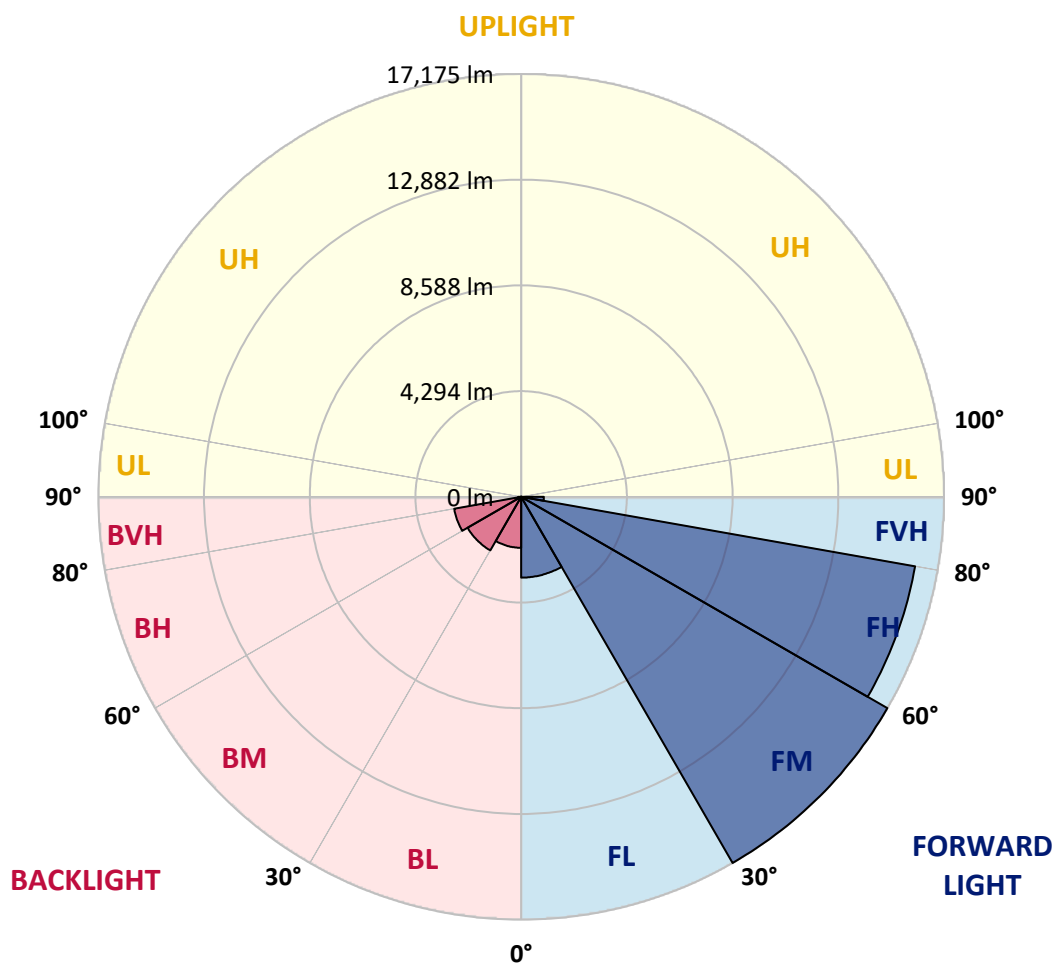
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3282.3	7.3			
FM	(30°-60°)	17175.4	38.1			
FH	(60°-80°)	16249.0	36.0			G5
FVH	(80°-90°)	921.7	2.0			G5
BL	(0°-30°)	2071.2	4.6	B3/2500		
BM	(30°-60°)	2511.1	5.6	B3/5000		
BH	(60°-80°)	2763.9	6.1	B4/5000		G4/5000
BVH	(80°-90°)	126.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9728.2	9728.2	9728.2	9728.2	9728.2	9728.2	9728.2	9728.2	9728.2	9728.2	9728.2
2.5°	9327.9	9343.5	9392.4	9423.5	9563.6	9623.7	9665.9	9708.2	9714.9	9734.9	9714.9
5°	8349.3	8382.6	8473.8	8576.1	8847.5	9061.0	9285.6	9519.1	9561.4	9712.6	9754.8
7.5°	7590.9	7581.9	7657.6	7780.0	8057.9	8353.8	8747.4	9212.2	9303.4	9643.7	9808.3
10°	7037.1	7030.4	7110.5	7237.3	7501.8	7782.1	8226.9	8863.0	8992.0	9534.7	9859.4
12.5°	6627.7	6630.1	6710.0	6850.2	7119.4	7401.8	7853.3	8525.0	8689.5	9408.0	9912.8
15°	6356.4	6374.3	6438.7	6587.8	6850.2	7132.7	7575.3	8271.5	8456.0	9307.8	9972.8
17.5°	6265.3	6294.2	6316.4	6425.4	6650.1	6932.5	7366.3	8084.6	8280.3	9238.9	10026.2
20°	6349.8	6383.2	6340.9	6378.7	6521.0	6770.1	7201.6	7937.8	8137.9	9161.1	10032.9
22.5°	6712.4	6743.5	6618.9	6509.8	6501.0	6652.2	7065.9	7822.2	8029.0	9103.3	10035.1
25°	7350.6	7370.6	7161.6	6908.0	6661.2	6609.9	6970.3	7742.1	7962.3	9052.1	9992.9
27.5°	8133.5	8149.1	7908.8	7535.3	7039.2	6710.0	6937.0	7695.3	7924.5	9007.6	9921.8
30°	9085.5	9158.8	8836.4	8364.8	7642.0	7005.9	7003.7	7670.9	7882.2	8932.0	9781.6
32.5°	10059.6	10090.7	9868.3	9390.2	8453.8	7526.4	7190.5	7688.7	7871.0	8840.8	9603.7
35°	11047.1	11087.1	10942.6	10557.8	9563.6	8289.2	7555.3	7793.3	7940.0	8809.7	9479.2
37.5°	12326.0	12379.3	12179.1	11734.3	10913.7	9323.4	8162.4	8055.6	8151.3	8898.6	9441.3
40°	14347.7	14323.3	13738.3	13075.5	12390.4	10646.8	9029.8	8500.5	8556.1	9185.5	9556.9
42.5°	16700.8	16640.7	15633.2	14592.3	14014.0	12248.1	10177.5	9272.3	9261.2	9750.4	9964.0
45°	18577.9	18529.0	17621.6	16338.2	15875.6	14071.8	11660.9	10422.1	10339.9	10646.8	10715.7
47.5°	19594.3	19596.5	19073.8	18026.3	18015.2	16389.3	13567.0	12085.7	11943.4	12088.0	12014.5
50°	19238.5	19285.2	19229.5	18896.0	19967.9	19427.5	16055.7	14405.5	14118.6	14260.9	13978.4
52.5°	17517.0	17577.1	17906.2	18417.8	20788.6	23099.5	19712.2	17287.9	16954.3	16903.2	16589.6
55°	14465.5	14538.9	15210.6	16600.7	20105.9	25566.0	25481.5	20962.2	20430.6	19947.9	19814.5
57.5°	9970.7	10093.0	11173.8	13237.9	17897.3	26311.0	32351.7	26199.9	25118.9	23433.1	23464.2
60°	5620.3	5762.7	7037.1	8911.9	13440.2	25501.5	37578.3	34133.2	31851.3	27514.3	27745.7
62.5°	3574.1	3727.6	4695.1	6191.9	8064.5	21142.3	39720.1	45162.6	42264.5	32545.3	32772.1
65°	2893.5	2960.3	3416.2	5110.9	5856.1	12737.5	38094.4	54248.0	53167.0	38930.6	37871.9
67.5°	2824.6	2846.9	3082.6	4290.3	5615.8	7159.3	30385.6	55947.2	57146.0	44893.4	39996.0
70°	2791.2	2869.0	3474.0	4094.6	5377.8	6038.4	18259.9	51289.9	53182.6	46452.5	37169.1
72.5°	1354.5	1350.0	1748.1	3703.2	6058.4	6263.1	9381.2	41499.4	43398.9	40245.0	30543.5
75°	1092.0	998.6	954.2	1356.7	5824.9	6467.7	5978.3	28555.2	29929.7	26982.7	18775.8
77.5°	1036.5	925.2	847.5	849.6	2462.0	6859.1	5064.2	15804.5	16204.8	12188.1	5144.4
80°	858.4	756.2	700.6	789.5	1192.1	6532.2	5475.7	7152.6	6563.3	2993.6	1712.5
82.5°	596.0	542.7	527.0	662.7	954.2	4655.0	6367.6	3843.2	3222.7	1499.0	1056.4
85°	380.3	324.7	360.3	482.6	742.9	2148.5	6558.9	2995.9	2382.0	951.8	596.0
87.5°	175.7	142.4	177.9	266.9	484.9	740.7	6240.8	3365.0	2453.2	502.6	375.9
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°	9728.2	9728.2	9728.2	9728.2	9728.2	9728.2	9728.2	9728.2	9728.2	9728.2	9728.2
2.5°	9732.7	9690.4	9657.0	9594.7	9525.8	9459.1	9399.0	9323.4	9301.1	9281.1	9312.2
5°	9763.7	9721.6	9599.2	9408.0	9196.7	8998.7	8800.8	8631.7	8527.1	8469.3	8502.8
7.5°	9810.5	9750.4	9497.0	9145.4	8765.3	8418.2	8060.2	7773.2	7562.0	7461.9	7490.9
10°	9852.8	9737.0	9323.4	8796.4	8240.4	7724.3	7159.3	6692.3	6345.3	6163.0	6207.4
12.5°	9870.6	9686.0	9081.0	8360.4	7597.6	6841.4	6009.5	5311.1	4813.0	4630.6	4592.7
15°	9888.3	9628.2	8814.1	7864.4	6821.3	5751.5	4586.0	3749.8	3336.1	3245.0	3224.9
17.5°	9892.8	9528.1	8511.7	7326.2	5911.7	4454.8	3136.0	2604.4	2606.6	2753.5	2771.3
20°	9846.1	9379.1	8144.6	6656.7	4821.8	3080.3	2153.0	2061.7	2397.5	2764.6	2809.0
22.5°	9739.4	9181.0	7728.8	5876.1	3574.1	2028.4	1665.8	1765.9	2199.6	2648.9	2700.1
25°	9603.7	8940.9	7237.3	4970.9	2366.4	1450.1	1396.8	1519.0	1812.6	2112.8	2141.8
27.5°	9419.0	8656.2	6685.7	3934.4	1536.8	1194.3	1229.9	1312.2	1432.3	1565.8	1579.2
30°	9181.0	8315.9	6096.2	2869.0	1161.0	1074.2	1125.4	1169.8	1221.1	1296.7	1303.4
32.5°	8907.5	7988.9	5491.3	1981.6	1029.8	1012.0	1051.9	1074.2	1114.2	1161.0	1165.5
35°	8678.5	7677.5	4864.1	1401.1	974.1	965.3	992.0	1000.9	1038.6	1089.9	1094.2
37.5°	8547.3	7424.0	4216.9	1129.8	936.4	923.0	938.5	938.5	992.0	1067.6	1078.7
40°	8556.1	7283.9	3569.7	1020.8	905.2	887.4	889.6	889.6	958.5	1040.9	1047.6
42.5°	8798.5	7319.5	2995.9	978.6	880.7	860.8	849.6	856.3	914.1	967.5	972.0
45°	9367.9	7570.8	2457.7	951.8	856.3	849.6	825.1	822.9	845.1	869.6	869.6
47.5°	10302.0	8066.8	2092.9	934.1	836.3	834.0	805.1	776.2	774.0	782.9	782.9
50°	11821.1	8920.9	1848.2	914.1	822.9	805.1	771.8	727.2	711.8	718.4	718.4
52.5°	14098.6	10444.3	1754.8	887.4	794.0	765.2	727.2	682.8	669.4	671.7	671.7
55°	17085.5	12784.1	1741.5	856.3	762.8	716.2	685.0	651.6	636.1	640.6	640.6
57.5°	20735.2	16020.1	1979.4	807.3	720.6	667.2	649.4	627.1	616.1	622.8	620.5
60°	25172.4	20254.8	2935.8	756.2	678.4	622.8	622.8	605.0	596.0	602.8	600.5
62.5°	30283.3	25118.9	4128.0	718.4	633.9	587.2	596.0	587.2	578.3	582.7	580.5
65°	34816.0	28288.4	3865.5	689.4	589.4	553.8	569.4	564.9	558.2	562.6	560.5
67.5°	34947.2	27114.0	2170.8	658.3	547.2	520.4	542.7	540.5	536.0	540.5	538.2
70°	31188.5	22894.8	1223.2	600.5	502.6	480.4	511.6	509.3	504.9	513.7	511.6
72.5°	24987.7	16614.0	894.1	529.4	458.2	438.1	473.7	471.6	471.6	484.9	478.2
75°	14378.7	8549.4	713.9	453.8	411.5	395.8	426.9	429.3	433.6	451.5	438.1
77.5°	4099.0	2664.5	582.7	384.8	353.7	347.0	378.1	382.5	384.8	404.8	387.0
80°	1523.5	1227.7	480.4	322.6	289.1	291.4	320.2	326.9	329.2	349.2	326.9
82.5°	972.0	809.6	389.2	249.1	226.8	224.6	260.2	269.1	269.1	271.3	258.0
85°	567.2	484.9	293.6	180.2	160.2	153.5	193.5	209.0	202.3	198.0	189.0
87.5°	380.3	333.6	180.2	100.1	86.8	82.3	113.4	124.5	120.0	113.4	106.7
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)