

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: McGRAW-EDISON

Report Number: P531660

Luminaire Tested: **GALN-SA7A-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24037 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

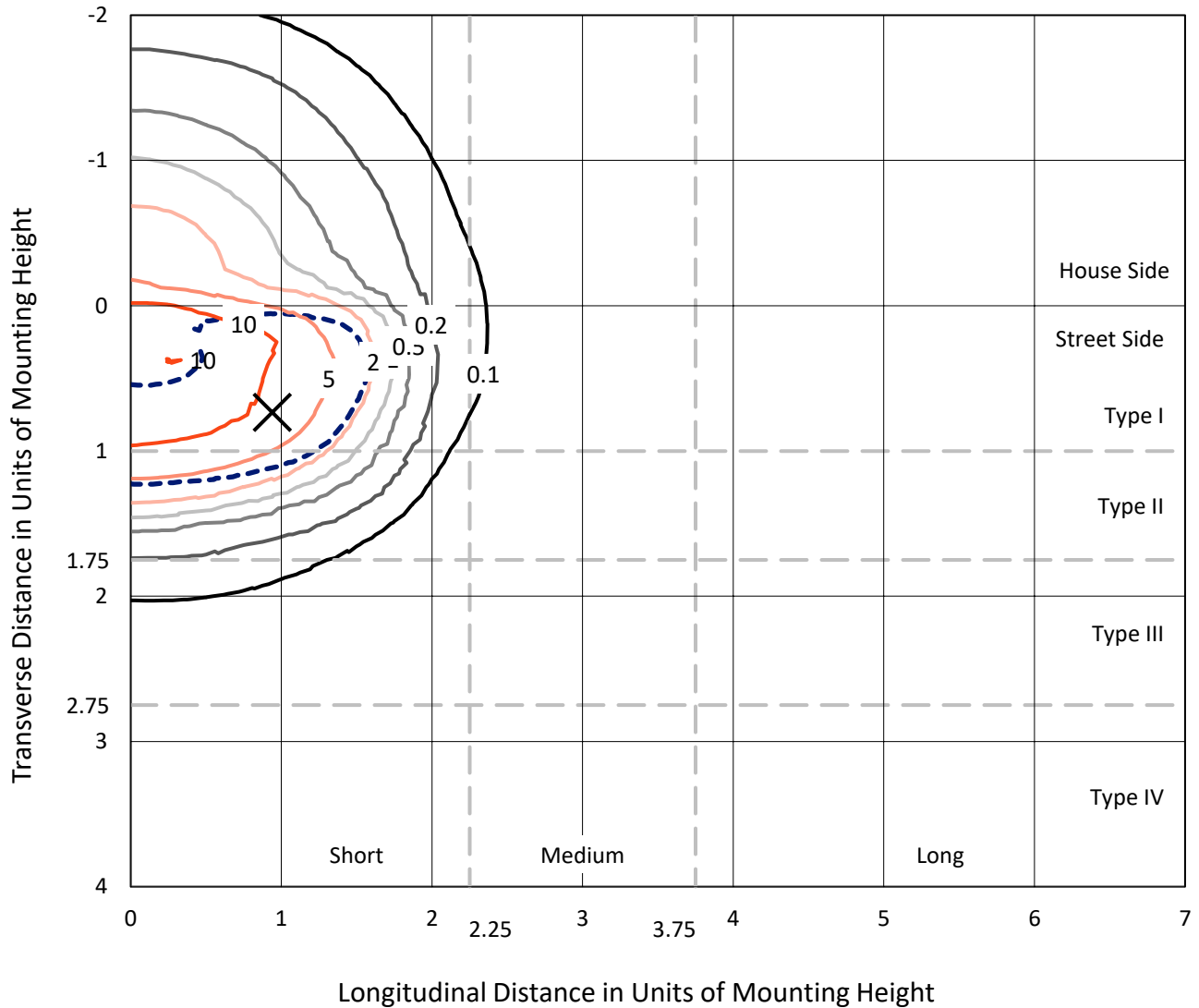
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

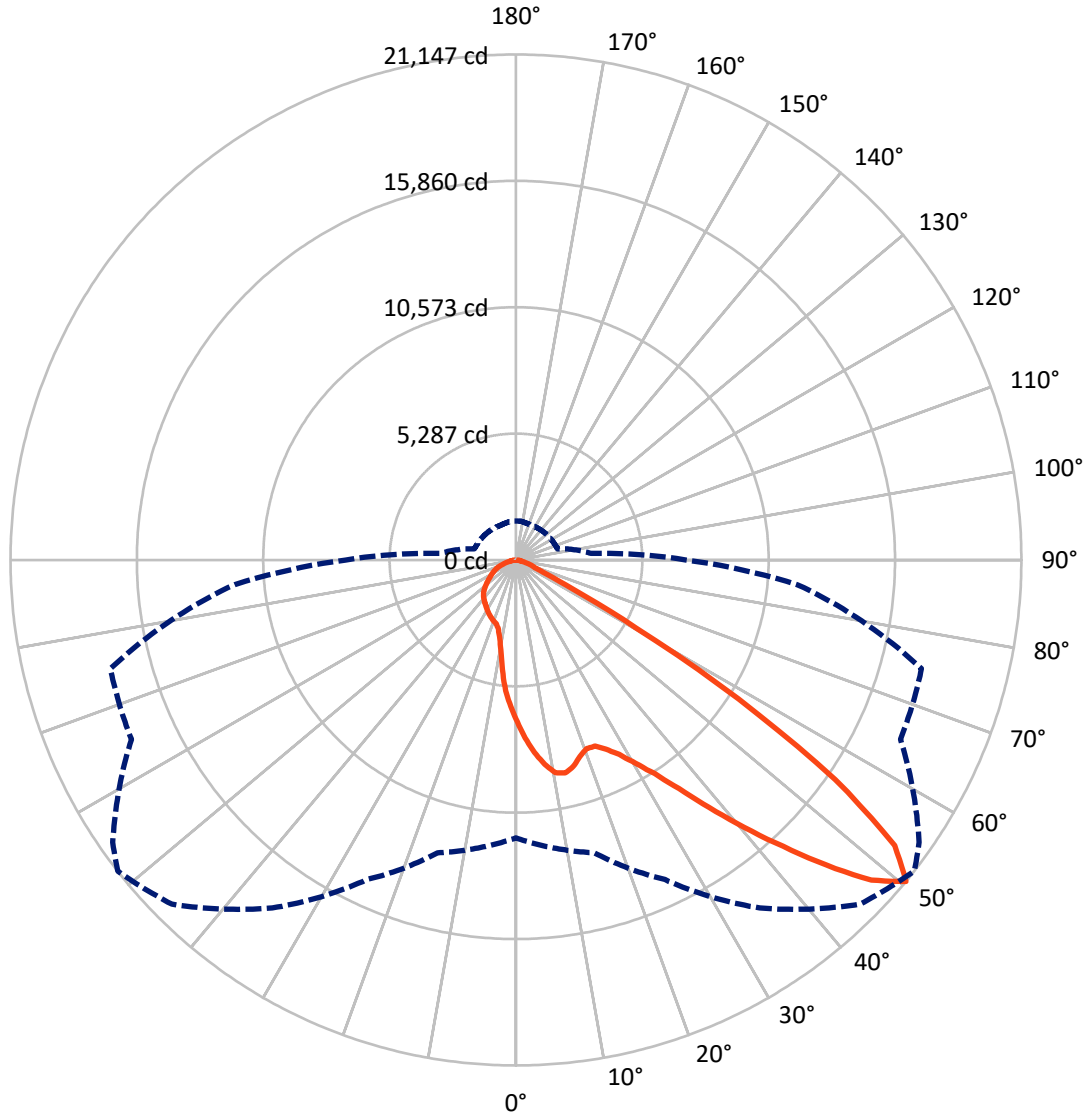
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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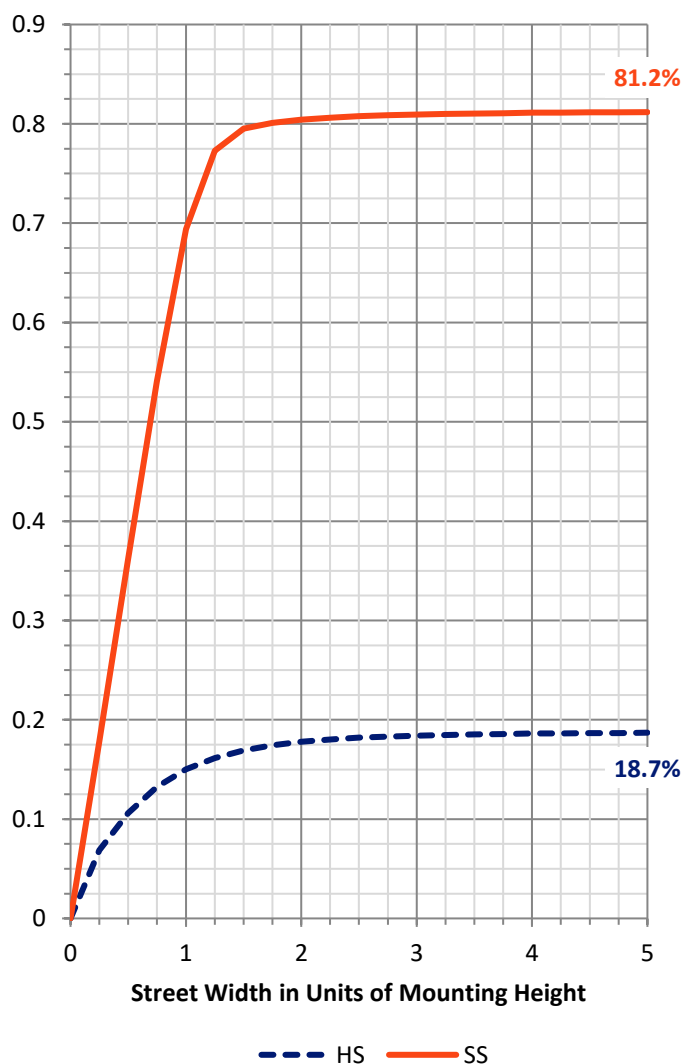
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4518.4	0.0	4518.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19518.6	0.0	19518.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	24037.0	0.0	24037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.5	2.6
10°-20°	1673.8	7.0
20°-30°	2819.5	11.7
30°-40°	4731.4	19.7
40°-50°	7237.8	30.1
50°-60°	5277.0	22.0
60°-70°	1174.4	4.9
70°-80°	423.6	1.8
80°-90°	75.0	0.3
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°	24037.0	100.0
0°-180°	24037.0	100.0

Coefficient of Utilization



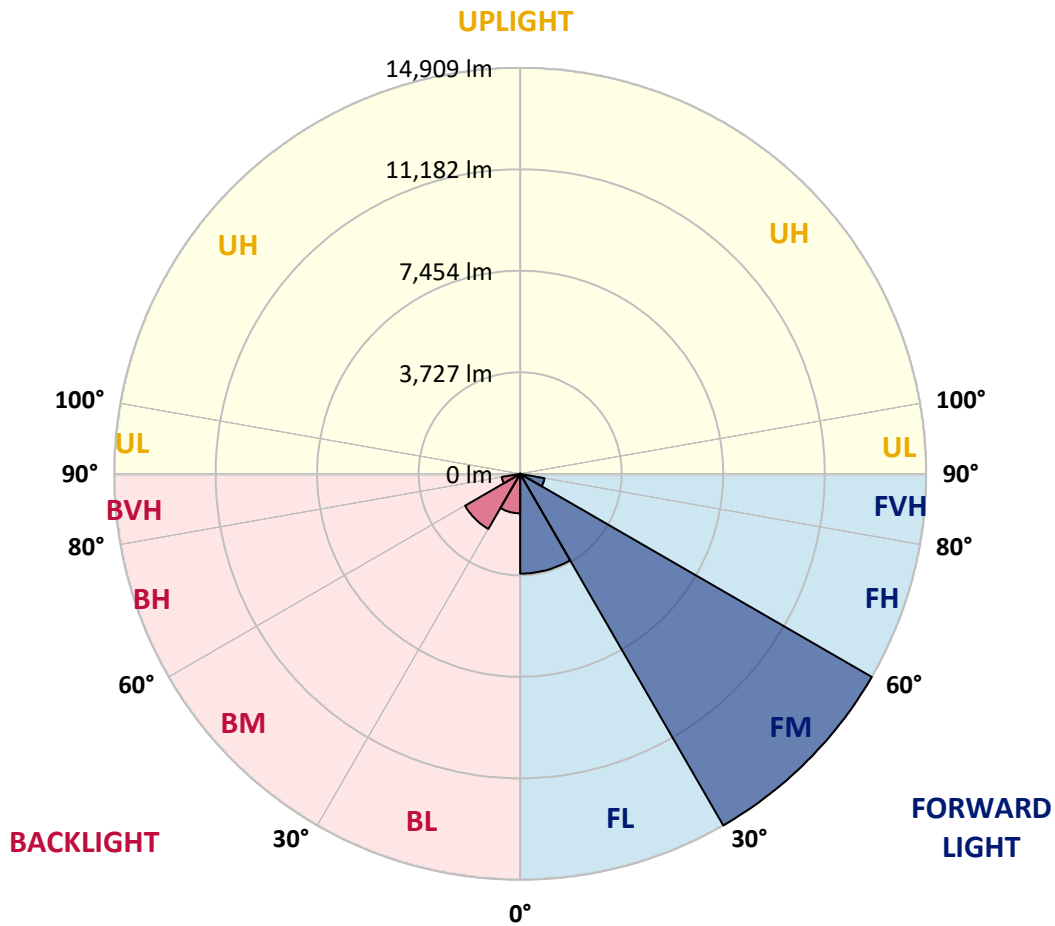
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3666.5	15.3			
FM (30°-60°)	14909.0	62.0			
FH (60°-80°)	909.6	3.8			G1/1800
FVH (80°-90°)	33.6	0.1			G1/100
BL (0°-30°)	1451.4	6.0	B3/2500		
BM (30°-60°)	2337.2	9.7	B2/2500		
BH (60°-80°)	688.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	41.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6775.6	6775.6	6775.6	6775.6	6775.6	6775.6	6775.6	6775.6	6775.6	6775.6	6775.6
2.5°	7977.8	7824.3	7841.7	7731.6	7612.8	7578.0	7456.4	7340.5	7253.6	7068.2	6897.3
5°	8719.4	8673.0	8603.5	8516.6	8426.8	8206.7	8082.1	7937.3	7618.6	7331.8	7047.9
7.5°	8826.6	8817.9	8855.5	8855.5	8887.4	8803.4	8626.7	8525.3	8186.4	7720.0	7192.8
10°	8073.4	8099.5	8282.0	8519.5	8849.7	9078.6	9049.6	9023.6	8652.8	8015.5	7363.7
12.5°	7473.8	7415.8	7523.0	7725.8	8221.1	8774.4	9148.1	9151.0	9055.4	8487.6	7488.2
15°	7134.8	7175.4	7204.4	7300.0	7673.6	8313.8	8971.4	9165.5	9585.5	8820.8	7685.2
17.5°	7352.1	7215.9	7210.2	7233.3	7424.5	7905.4	8644.1	8977.2	9875.2	9249.5	7928.6
20°	7636.0	7633.1	7552.0	7523.0	7520.1	7948.8	8429.7	8881.6	10028.7	9805.7	8174.8
22.5°	8134.2	8134.2	8001.0	7937.3	7801.1	8151.6	8458.7	8765.7	10283.7	10188.1	8293.6
25°	8968.5	8832.4	8603.5	8447.1	8368.9	8493.4	8765.7	9040.9	10506.7	10593.6	8539.8
27.5°	9739.1	9524.7	9411.7	9142.3	9038.0	8965.6	9214.7	9492.8	10767.4	11225.1	8673.0
30°	10613.9	10576.2	10373.5	10025.8	9768.0	9634.8	9863.6	10138.8	11245.4	11871.1	8980.1
32.5°	12178.2	11836.4	11561.2	11135.3	10715.3	10431.4	10657.4	10839.9	12039.1	12546.1	9316.1
35°	13867.0	13756.9	13281.9	12514.2	11871.1	11616.2	11749.4	11885.6	12963.2	13577.3	9881.0
37.5°	15526.9	15376.3	14985.2	14339.2	13557.1	13038.5	13134.1	13293.4	14000.3	14967.8	10570.4
40°	16720.4	16535.0	16338.0	16242.4	15466.1	14756.3	14701.3	14741.9	15402.3	16271.4	11335.2
42.5°	16807.3	17036.1	17097.0	17482.2	17299.7	16717.5	16378.5	16387.2	16740.6	17560.4	12108.7
45°	16624.8	16413.3	16862.3	17913.9	18516.4	18788.7	18218.0	18145.6	17569.1	18307.8	12493.9
47.5°	14710.0	14767.9	15526.9	17189.7	18930.6	20147.3	20014.0	19773.6	18012.3	18281.7	12433.1
50°	11627.8	11978.3	12682.2	14753.4	17771.9	20361.7	21146.7	20590.5	17748.7	17563.3	11813.2
52.5°	7743.2	7888.0	8351.5	11025.2	14289.9	18200.6	19843.1	19970.6	17505.4	16621.9	11028.1
55°	3447.2	3435.6	4087.4	5758.9	8965.6	13849.6	16213.4	16989.8	16569.7	15663.0	10263.4
57.5°	1460.0	1509.2	1775.7	2488.4	4408.9	8357.3	10984.7	11665.4	12743.1	12861.8	7873.5
60°	987.8	993.6	1066.0	1245.6	1845.3	3925.2	5761.7	6578.6	7349.2	7297.1	4177.2
62.5°	776.3	796.6	851.7	924.1	1095.0	1781.5	2578.2	3033.0	3082.2	2592.6	1584.6
65°	663.4	666.3	721.3	782.1	857.5	1037.1	1242.7	1265.9	1280.4	1234.0	1164.5
67.5°	547.5	553.3	596.7	666.3	735.8	793.7	851.7	880.6	947.3	1077.6	1060.2
70°	434.5	443.2	480.9	538.8	602.5	637.3	709.7	735.8	796.6	898.0	938.6
72.5°	330.2	333.1	365.0	405.6	463.5	498.3	559.1	588.1	628.6	715.5	753.2
75°	237.5	246.2	269.4	289.7	298.4	321.5	379.5	411.3	469.3	506.9	509.8
77.5°	124.6	130.4	136.1	136.1	165.1	208.6	246.2	263.6	304.2	333.1	318.6
80°	49.2	52.1	66.6	89.8	115.9	150.6	176.7	185.4	220.2	237.5	246.2
82.5°	29.0	31.9	43.5	63.7	84.0	107.2	127.5	136.1	159.3	179.6	185.4
85°	14.5	17.4	26.1	40.6	55.0	66.6	63.7	60.8	60.8	57.9	60.8
87.5°	5.8	5.8	8.7	8.7	8.7	11.6	14.5	14.5	14.5	17.4	17.4
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°	6775.6	6775.6	6775.6	6775.6	6775.6	6775.6	6775.6	6775.6	6775.6	6775.6	6775.6
2.5°	6784.3	6668.4	6561.3	6364.3	6149.9	6089.1	5840.0	5750.2	5686.4	5611.1	5587.9
5°	6819.1	6665.6	6320.8	5924.0	5608.2	5202.7	4936.2	4649.4	4440.8	4388.7	4374.2
7.5°	6891.5	6627.9	6034.0	5434.4	4788.4	4238.0	3818.0	3592.0	3392.2	3380.6	3360.3
10°	6972.6	6514.9	5721.2	4779.7	3954.1	3444.3	3192.3	3093.8	3044.5	3033.0	3027.2
12.5°	7039.2	6491.7	5370.7	4142.4	3363.2	3056.1	2980.8	2972.1	2992.4	2998.2	3009.8
15°	7068.2	6399.0	4947.7	3571.8	2995.3	2882.3	2914.2	2948.9	2963.4	3001.1	2972.1
17.5°	7123.2	6280.3	4426.3	3119.9	2789.6	2809.9	2864.9	2905.5	2928.7	2954.7	2917.1
20°	7152.2	6173.1	3936.8	2850.5	2717.2	2754.9	2830.2	2862.0	2891.0	2902.6	2859.1
22.5°	7126.1	5952.9	3505.1	2633.2	2647.7	2696.9	2763.6	2798.3	2780.9	2734.6	2708.5
25°	7056.6	5643.0	3056.1	2494.2	2549.2	2636.1	2688.2	2662.2	2630.3	2604.2	2595.5
27.5°	7053.7	5263.5	2731.7	2366.7	2465.2	2584.0	2566.6	2543.4	2557.9	2537.6	2514.4
30°	7068.2	4895.6	2465.2	2294.3	2404.3	2462.3	2482.6	2459.4	2476.8	2439.1	2450.7
32.5°	6992.9	4536.4	2291.4	2210.3	2331.9	2329.0	2395.7	2413.0	2372.5	2294.3	2305.9
35°	7024.8	4246.7	2143.6	2172.6	2250.8	2250.8	2303.0	2282.7	2175.5	2129.2	2140.7
37.5°	7244.9	3962.8	2071.2	2120.5	2172.6	2195.8	2178.4	2091.5	2065.4	2065.4	2071.2
40°	7453.5	3719.5	2027.8	2108.9	2100.2	2114.7	1987.2	1995.9	1995.9	1998.8	1984.3
42.5°	7638.9	3554.4	1993.0	2039.4	2053.8	1978.5	1900.3	1891.6	1911.9	1909.0	1897.4
45°	7705.5	3418.2	1943.8	1961.1	1972.7	1848.2	1810.5	1793.1	1816.3	1825.0	1836.6
47.5°	7450.6	3305.3	1888.7	1854.0	1830.8	1749.7	1700.4	1668.6	1697.5	1746.8	1758.4
50°	7123.2	3157.5	1801.8	1735.2	1685.9	1651.2	1616.4	1584.6	1604.8	1639.6	1630.9
52.5°	6639.5	2925.8	1691.7	1622.2	1538.2	1546.9	1515.0	1497.6	1509.2	1509.2	1500.5
55°	5950.0	2404.3	1506.3	1457.1	1387.6	1410.7	1416.5	1393.4	1370.2	1390.5	1373.1
57.5°	4061.3	1697.5	1344.1	1344.1	1274.6	1306.5	1303.6	1248.5	1193.5	1199.3	1187.7
60°	2349.3	1352.8	1239.8	1228.2	1155.8	1181.9	1187.7	1150.0	1066.0	1071.8	1060.2
62.5°	1335.4	1155.8	1083.4	1066.0	1051.5	1074.7	1074.7	1025.5	953.0	958.8	947.3
65°	1135.5	1071.8	967.5	964.6	958.8	964.6	941.5	889.3	825.6	799.5	802.4
67.5°	1031.3	990.7	889.3	863.2	845.9	843.0	799.5	750.3	721.3	698.1	695.2
70°	903.8	871.9	796.6	761.9	744.5	703.9	660.5	628.6	588.1	576.5	588.1
72.5°	715.5	712.6	683.6	646.0	608.3	576.5	538.8	495.4	457.7	449.0	428.7
75°	495.4	501.1	506.9	501.1	469.3	428.7	385.3	350.5	304.2	278.1	272.3
77.5°	324.4	333.1	341.8	330.2	310.0	272.3	243.3	199.9	165.1	144.8	141.9
80°	237.5	249.1	254.9	246.2	223.1	194.1	162.2	127.5	101.4	84.0	84.0
82.5°	182.5	194.1	199.9	185.4	162.2	139.0	115.9	89.8	69.5	55.0	52.1
85°	63.7	60.8	72.4	75.3	89.8	84.0	69.5	52.1	40.6	29.0	26.1
87.5°	17.4	17.4	20.3	20.3	17.4	14.5	14.5	14.5	11.6	8.7	8.7
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)