

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: P457647

Luminaire Tested: **GALN-SA9A-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38126 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

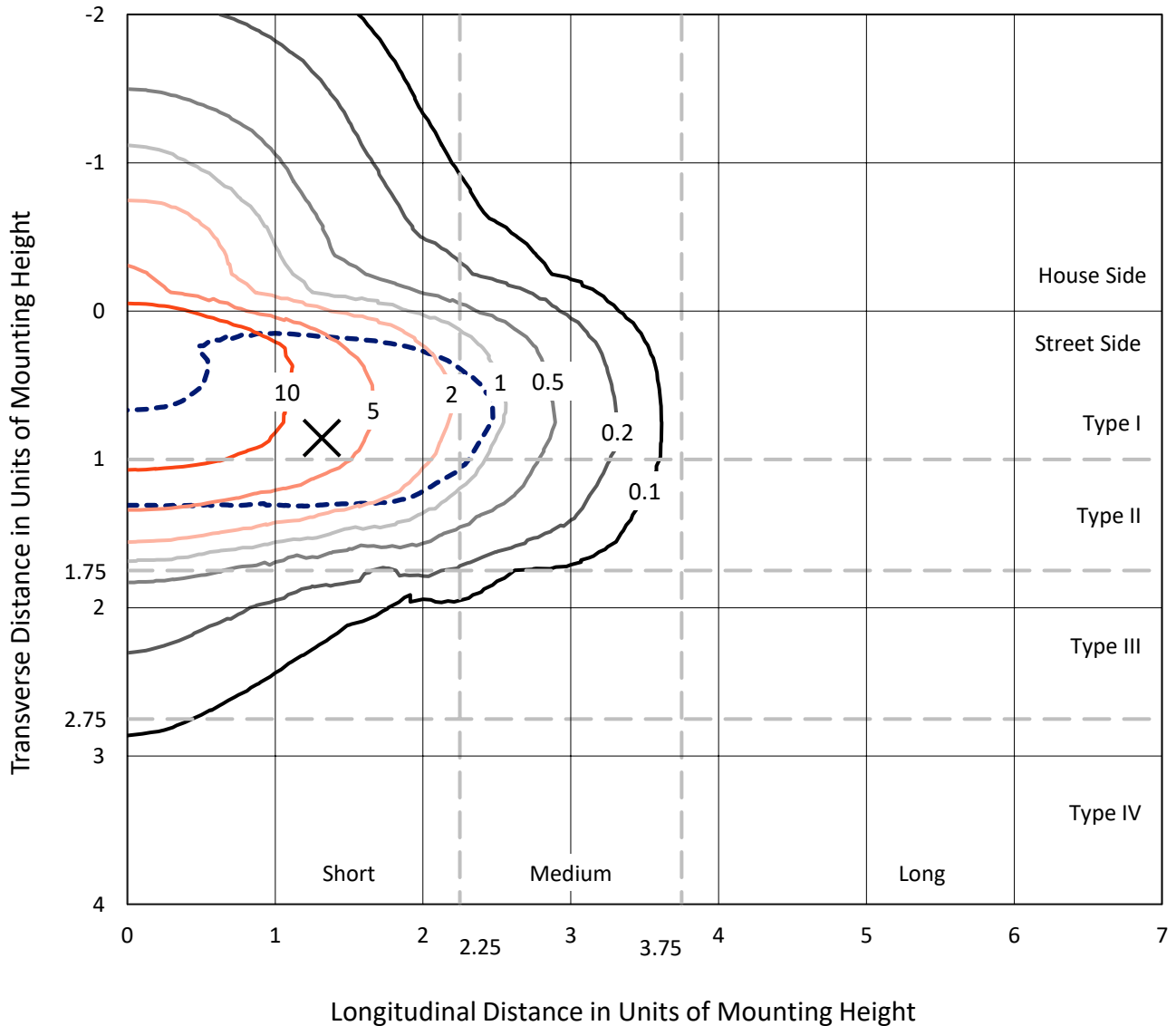
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457647
 CATALOG NUMBER: GALN-SA9A-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

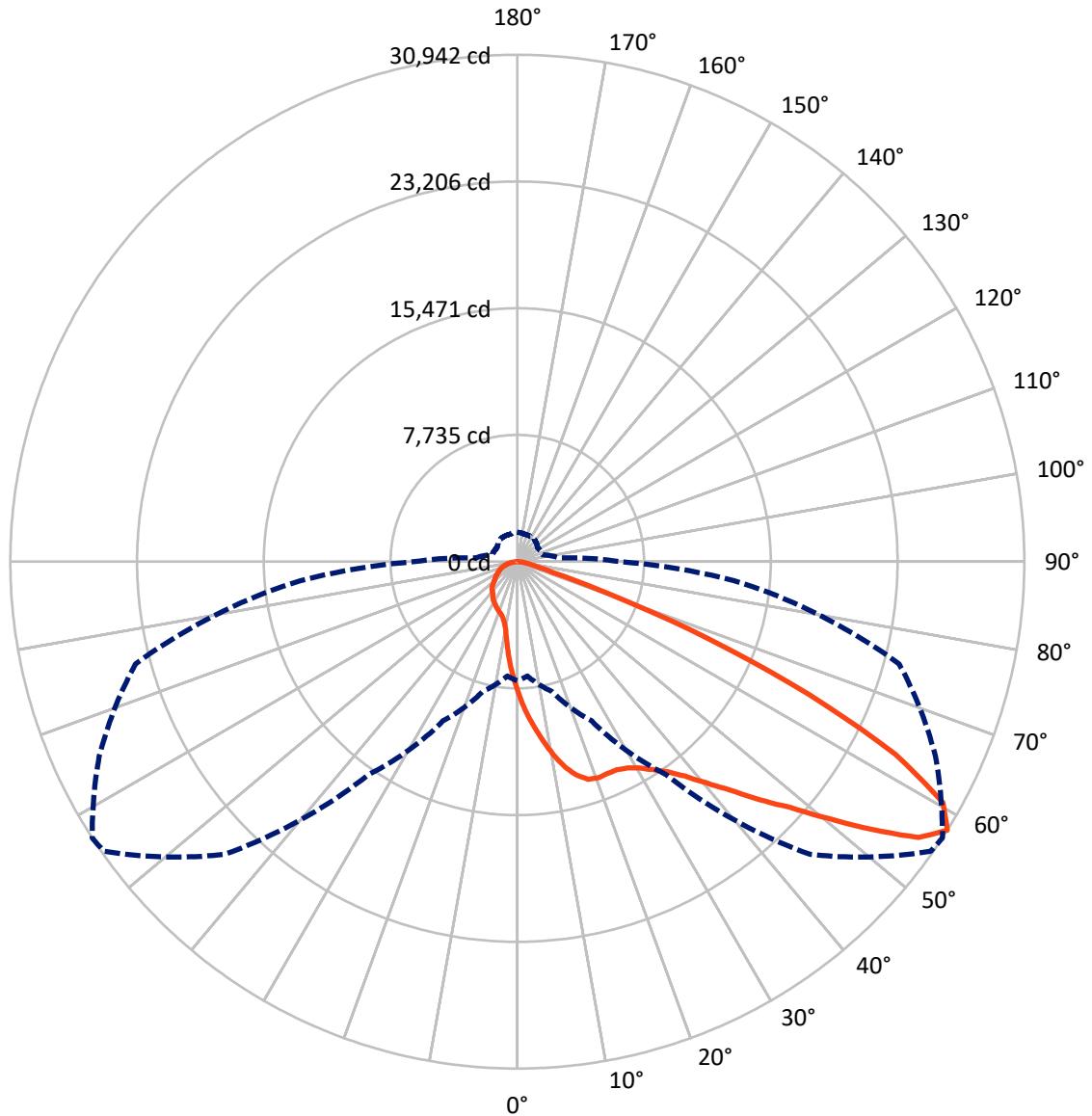
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Short - N/A

REPORT NUMBER: P457647
CATALOG NUMBER: GALN-SA9A-730-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P457647

CATALOG NUMBER: GALN-SA9A-730-U-AFL

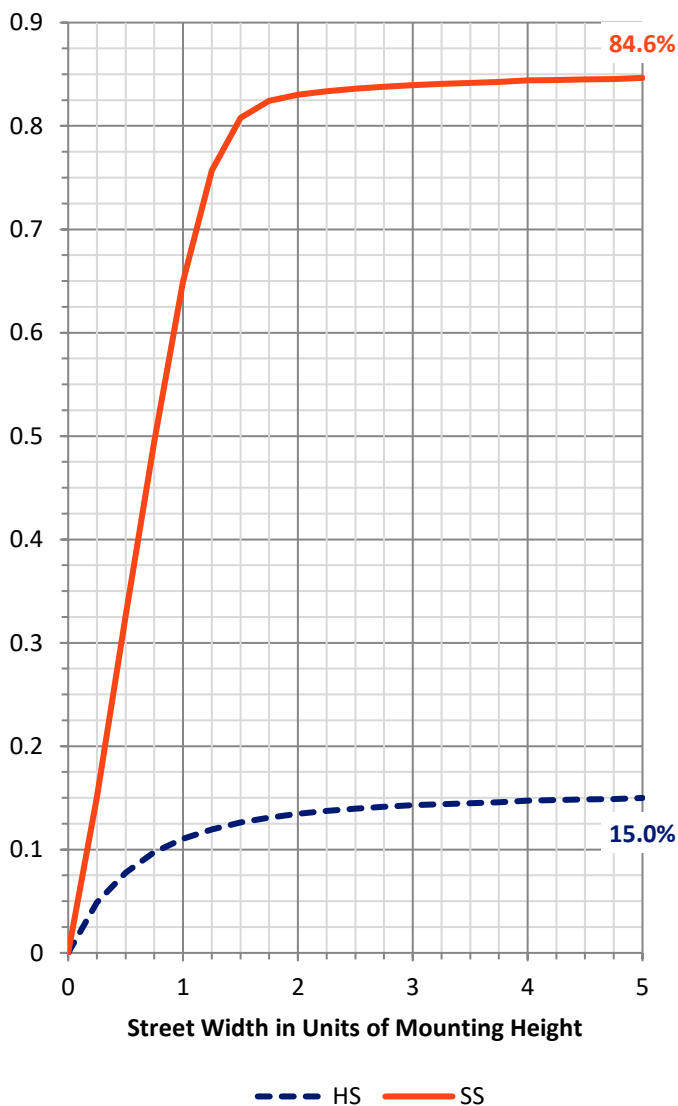
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5797.9	0.0	5797.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	32328.1	0.0	32328.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	38126.0	0.0	38126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.8	2.0
10°-20°	2268.7	6.0
20°-30°	3767.2	9.9
30°-40°	5674.6	14.9
40°-50°	8519.8	22.3
50°-60°	9549.6	25.0
60°-70°	5588.9	14.7
70°-80°	1653.2	4.3
80°-90°	334.1	0.9
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°	38126.0	100.0
0°-180°	38126.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457647

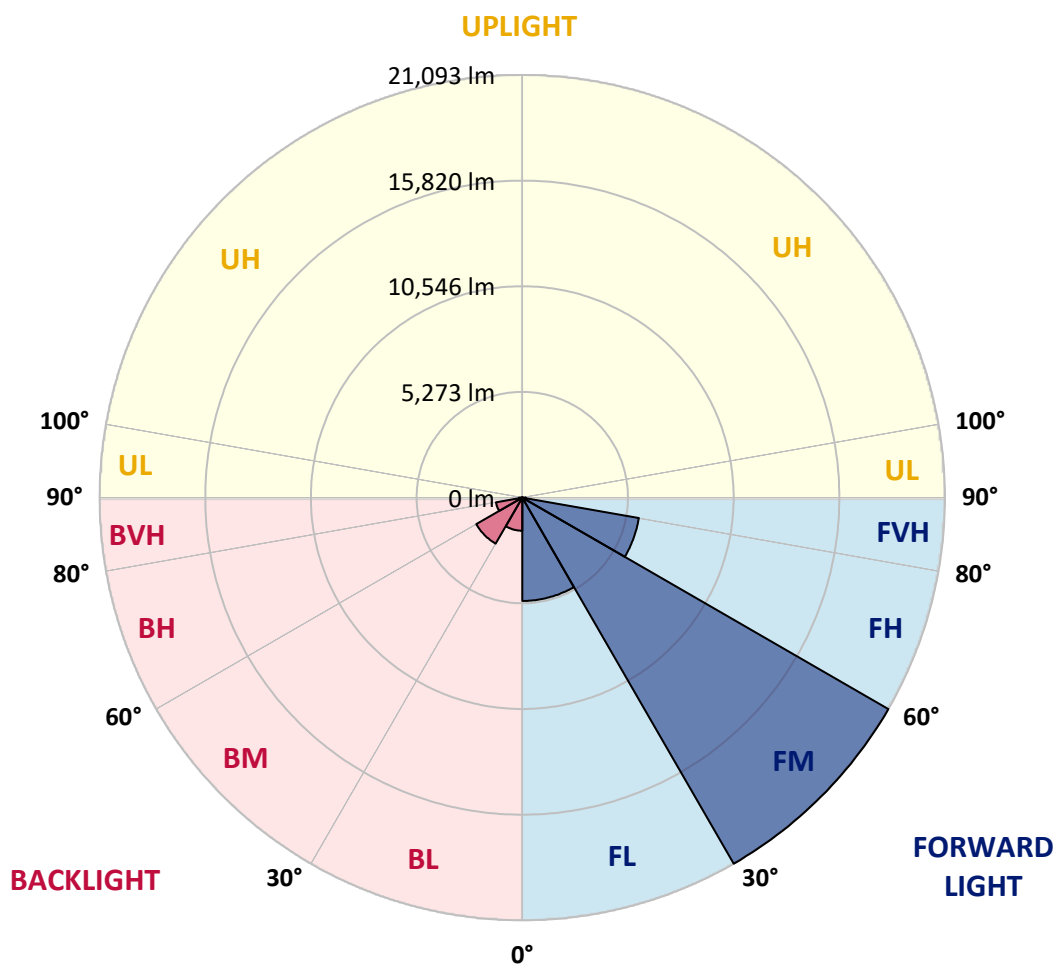
CATALOG NUMBER: GALN-SA9A-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5153.8	13.5			
FM	(30°-60°)	21093.0	55.3			
FH	(60°-80°)	5908.0	15.5			G3/7500
FVH	(80°-90°)	173.4	0.5			G2/225
BL	(0°-30°)	1652.0	4.3	B3/2500		
BM	(30°-60°)	2651.0	7.0	B3/5000		
BH	(60°-80°)	1334.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	160.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P457647

CATALOG NUMBER: GALN-SA9A-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8
2.5°	9952.8	9844.3	9758.7	9683.6	9585.5	9320.5	9055.4	9051.2	8840.5	8514.9	8181.0
5°	11574.4	11428.3	11447.1	11213.4	10979.6	10595.6	10034.2	10005.0	9556.3	8946.9	8327.1
7.5°	12630.4	12632.5	12574.1	12440.5	12188.0	11751.8	11115.3	10971.3	10347.3	9422.7	8494.0
10°	12576.2	12632.5	12730.6	12845.4	12922.6	12707.6	12127.5	11952.1	11140.3	9998.7	8679.8
12.5°	11854.1	11941.7	12081.5	12369.5	12834.9	13189.7	12991.5	12849.5	12058.6	10572.6	8884.3
15°	11403.3	11455.4	11532.7	11726.8	12227.6	13077.0	13590.4	13515.3	12924.7	11221.7	9113.8
17.5°	11265.5	11317.7	11342.7	11461.7	11818.6	12688.8	13826.3	13959.8	13692.7	11818.6	9345.5
20°	11403.3	11428.3	11428.3	11499.3	11778.9	12461.4	13815.8	14085.0	14323.0	12534.4	9562.6
22.5°	11764.3	11774.8	11760.1	11785.2	11993.9	12524.0	13717.7	14051.6	14832.2	13141.7	9731.6
25°	12350.8	12367.5	12271.5	12213.0	12365.4	12799.5	13772.0	14078.8	15230.8	13721.9	9844.3
27.5°	13016.5	13037.4	12920.5	12784.9	12855.8	13139.6	13984.9	14260.3	15529.2	14293.7	9915.3
30°	13832.5	13840.9	13644.7	13481.9	13436.0	13646.8	14348.0	14604.7	15900.7	14967.8	10021.7
32.5°	14667.3	14729.9	14477.4	14247.8	14170.6	14235.3	14884.4	15132.7	16343.2	15692.0	10192.8
35°	15802.6	15813.1	15510.4	15230.8	14976.2	15059.7	15571.0	15750.5	16954.6	16528.9	10434.9
37.5°	17219.7	17315.7	16898.3	16376.5	16063.5	15942.5	16401.6	16597.8	17812.4	17555.7	10800.1
40°	18793.3	18828.8	18471.9	18146.3	17574.5	17223.9	17541.1	17754.0	18870.5	18780.7	11223.8
42.5°	19782.5	19859.7	19886.8	19853.5	19423.5	18835.0	18956.1	19056.2	20122.7	19930.7	11657.9
45°	20116.4	20231.2	20619.4	21441.7	21487.6	20907.4	20625.6	20721.6	21487.6	21091.0	12073.2
47.5°	19563.4	19759.5	20475.4	22161.7	23424.3	23468.1	22618.7	22407.9	22731.4	22053.1	12373.7
50°	18133.8	18175.5	19271.2	21713.0	24332.1	25916.1	25037.5	24645.2	23912.6	22764.8	12580.3
52.5°	15921.6	15969.6	16887.9	19628.1	23772.8	27627.5	27867.5	27166.2	25112.7	23317.8	12716.0
55°	11818.6	12096.1	13106.2	15754.6	21122.3	27466.8	30117.2	29718.6	26563.1	23756.1	12928.9
57.5°	7266.9	7012.3	8210.2	10718.7	15886.1	25258.7	30812.2	30941.6	28159.6	24123.4	13285.7
60°	3343.3	3393.4	3888.0	5528.4	9683.6	19759.5	29021.6	29839.7	29042.4	24110.9	13375.5
62.5°	2304.0	2258.1	2132.9	2427.2	4416.1	12496.8	24513.7	25899.4	27272.7	23361.7	13018.6
65°	2059.9	2013.9	1771.8	1690.5	2028.5	5447.0	17820.7	19569.6	22963.1	21470.9	12129.5
67.5°	1924.2	1861.6	1611.1	1452.5	1448.4	2168.4	10508.0	12613.7	17031.9	18152.6	10510.0
70°	1782.3	1732.2	1483.8	1308.5	1233.4	1362.8	4618.5	6046.0	11058.9	13081.2	8187.2
72.5°	1640.4	1581.9	1358.6	1170.8	1072.7	1020.5	1769.8	2301.9	6248.4	7842.9	5019.2
75°	1433.8	1404.5	1214.6	1060.2	953.8	824.4	1122.8	1281.4	2988.6	3602.1	2519.0
77.5°	1254.3	1223.0	1079.0	926.6	849.4	669.9	797.2	870.3	1260.5	1460.9	1137.4
80°	918.3	949.6	909.9	818.1	757.6	525.9	536.4	596.9	749.2	828.5	695.0
82.5°	582.3	640.7	701.2	630.3	573.9	415.3	371.5	394.4	511.3	542.6	308.9
85°	244.2	248.4	407.0	384.0	327.7	246.3	223.3	235.8	273.4	285.9	144.0
87.5°	93.9	91.8	144.0	133.6	102.3	71.0	71.0	79.3	108.5	100.2	45.9
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: P457647
 CATALOG NUMBER: GALN-SA9A-730-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8	8009.8
2.5°	8037.0	7888.8	7594.5	7229.3	6962.2	6661.6	6396.6	6206.7	6135.7	6102.3	6039.7
5°	8030.7	7738.5	7129.1	6490.5	5977.1	5451.2	5006.7	4718.7	4693.6	4501.6	4482.8
7.5°	8032.8	7586.2	6615.7	5676.6	4894.0	4355.5	3988.2	3892.2	3777.4	3748.2	3762.8
10°	8039.1	7392.1	6064.8	4871.0	4113.4	3760.7	3623.0	3585.4	3589.6	3602.1	3604.2
12.5°	8047.4	7204.3	5492.9	4259.5	3675.2	3529.1	3514.5	3547.9	3583.3	3610.5	3616.7
15°	8057.8	6989.3	4935.7	3767.0	3456.0	3443.5	3491.5	3547.9	3598.0	3637.6	3643.9
17.5°	8045.3	6738.9	4468.2	3464.4	3335.0	3395.5	3474.8	3545.8	3591.7	3629.3	3633.4
20°	8016.1	6459.2	4017.4	3251.5	3259.9	3358.0	3443.5	3510.3	3560.4	3579.2	3593.8
22.5°	7903.4	6125.3	3625.1	3086.6	3170.1	3305.8	3408.0	3447.7	3391.3	3351.7	3362.1
25°	7711.4	5691.2	3259.9	2953.1	3088.7	3232.7	3337.1	3241.1	3195.2	3178.5	3186.8
27.5°	7471.4	5215.4	2984.4	2813.3	2984.4	3151.3	3122.1	3105.4	3084.6	3057.4	3063.7
30°	7212.6	4750.0	2750.6	2704.7	2871.7	2967.7	2980.2	3007.3	2984.4	2942.6	2959.3
32.5°	6972.6	4311.7	2573.2	2612.9	2792.4	2777.8	2871.7	2903.0	2796.6	2656.7	2663.0
35°	6768.1	3904.7	2439.7	2523.2	2656.7	2663.0	2756.9	2648.4	2533.6	2466.8	2471.0
37.5°	6613.6	3587.5	2352.0	2445.9	2483.5	2562.8	2512.7	2456.4	2441.8	2395.9	2397.9
40°	6521.8	3310.0	2295.7	2385.4	2379.2	2433.4	2272.7	2329.1	2349.9	2335.3	2337.4
42.5°	6430.0	3113.8	2237.2	2301.9	2299.9	2193.4	2157.9	2205.9	2260.2	2266.5	2262.3
45°	6356.9	2961.4	2176.7	2174.6	2216.4	2049.4	2039.0	2068.2	2145.4	2183.0	2180.9
47.5°	6275.6	2834.1	2084.9	2026.5	2039.0	1959.7	1943.0	1955.5	2049.4	2109.9	2126.6
50°	6173.3	2706.8	1970.1	1890.8	1838.6	1876.2	1880.4	1882.5	1976.4	2045.2	2059.9
52.5°	6091.9	2610.8	1838.6	1780.2	1717.6	1801.1	1832.4	1836.5	1892.9	1949.2	1959.7
55°	6139.9	2556.6	1709.2	1667.5	1611.1	1723.8	1784.4	1792.7	1805.2	1847.0	1853.2
57.5°	6283.9	2569.1	1604.9	1550.6	1508.9	1632.0	1734.3	1740.5	1732.2	1782.3	1790.6
60°	6327.7	2562.8	1527.7	1421.2	1396.2	1533.9	1661.2	1673.8	1671.7	1744.7	1759.3
62.5°	6144.1	2483.5	1450.5	1312.7	1296.0	1433.8	1559.0	1609.1	1619.5	1723.8	1742.6
65°	5712.1	2320.7	1348.2	1197.9	1197.9	1327.3	1460.9	1529.8	1559.0	1698.8	1719.7
67.5°	5142.3	2128.7	1243.8	1099.8	1095.7	1225.1	1356.5	1427.5	1473.4	1663.3	1675.8
70°	4267.9	1869.9	1114.4	993.4	993.4	1110.3	1229.2	1314.8	1381.6	1596.5	1596.5
72.5°	2923.9	1554.8	957.9	872.4	874.4	983.0	1104.0	1200.0	1279.3	1463.0	1467.1
75°	1849.1	1214.6	786.8	743.0	751.3	853.6	978.8	1079.0	1237.6	1446.3	1452.5
77.5°	983.0	853.6	626.1	615.7	626.1	720.0	859.8	997.6	1241.8	1254.3	1233.4
80°	636.5	605.2	494.6	473.7	477.9	580.2	765.9	947.5	997.6	1010.1	964.2
82.5°	346.4	384.0	350.6	329.7	329.7	452.9	653.2	753.4	715.8	594.8	567.7
85°	148.2	179.5	181.6	158.6	152.3	279.7	438.3	411.1	381.9	365.2	361.0
87.5°	41.7	58.4	58.4	43.8	33.4	77.2	87.7	25.0	0.0	2.1	4.2
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)