

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: P530022

Luminaire Tested: **GALN-SA5B-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530022
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-SA5B-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 21505 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

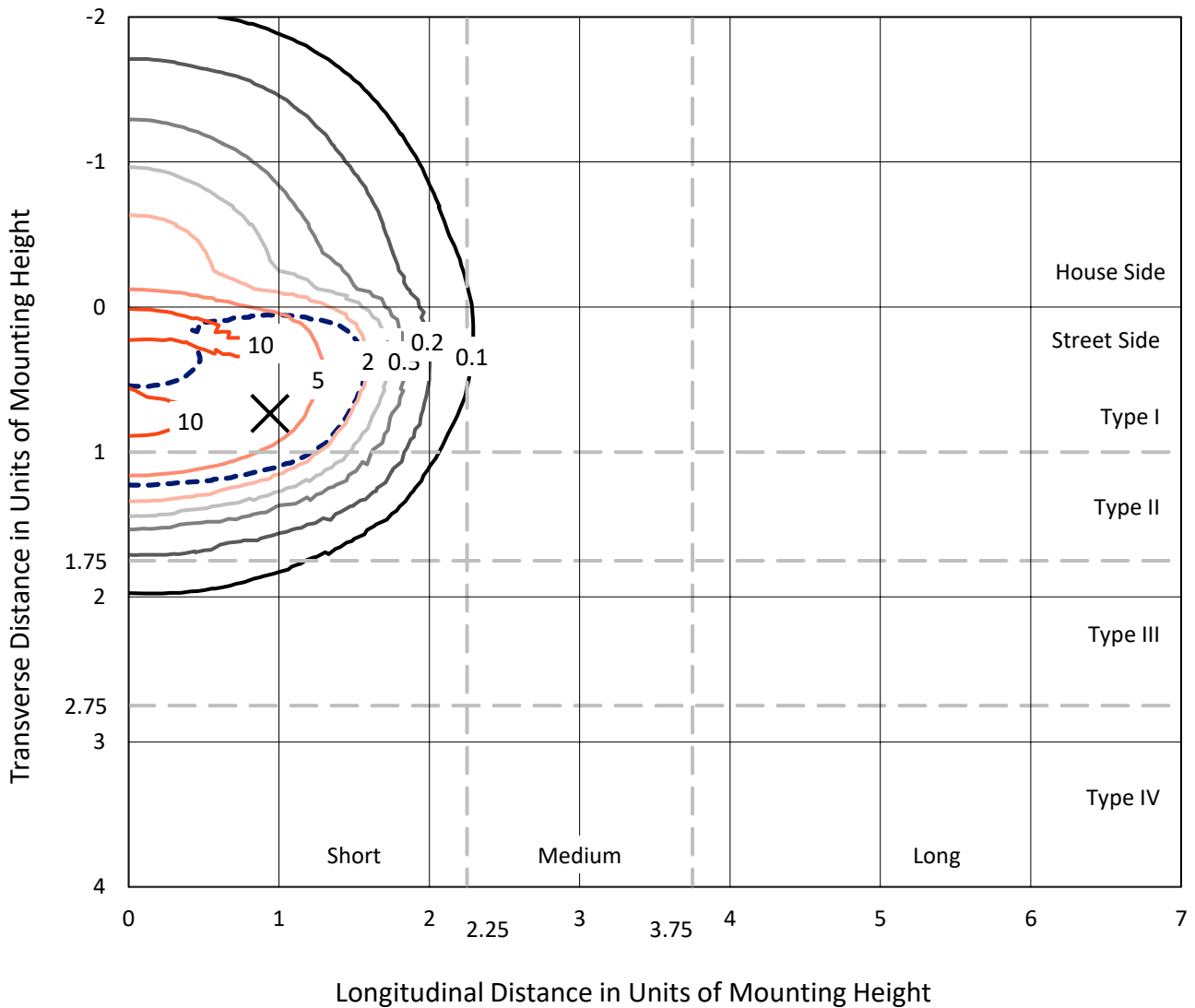
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530022
 CATALOG NUMBER: GALN-SA5B-727-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

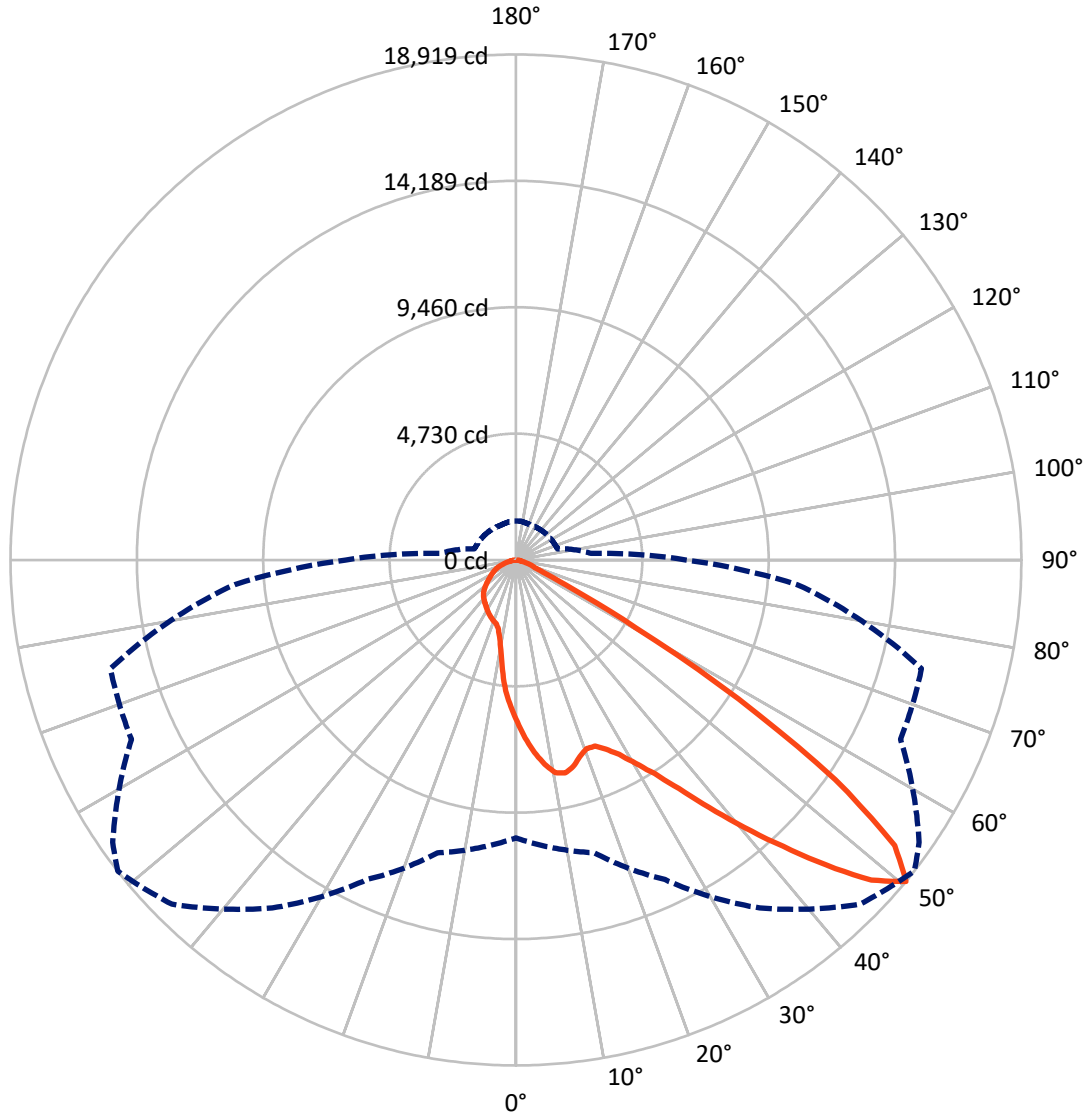
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

REPORT NUMBER: P530022
CATALOG NUMBER: GALN-SA5B-727-U-AFL-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P530022
 CATALOG NUMBER: GALN-SA5B-727-U-AFL-GRSWH

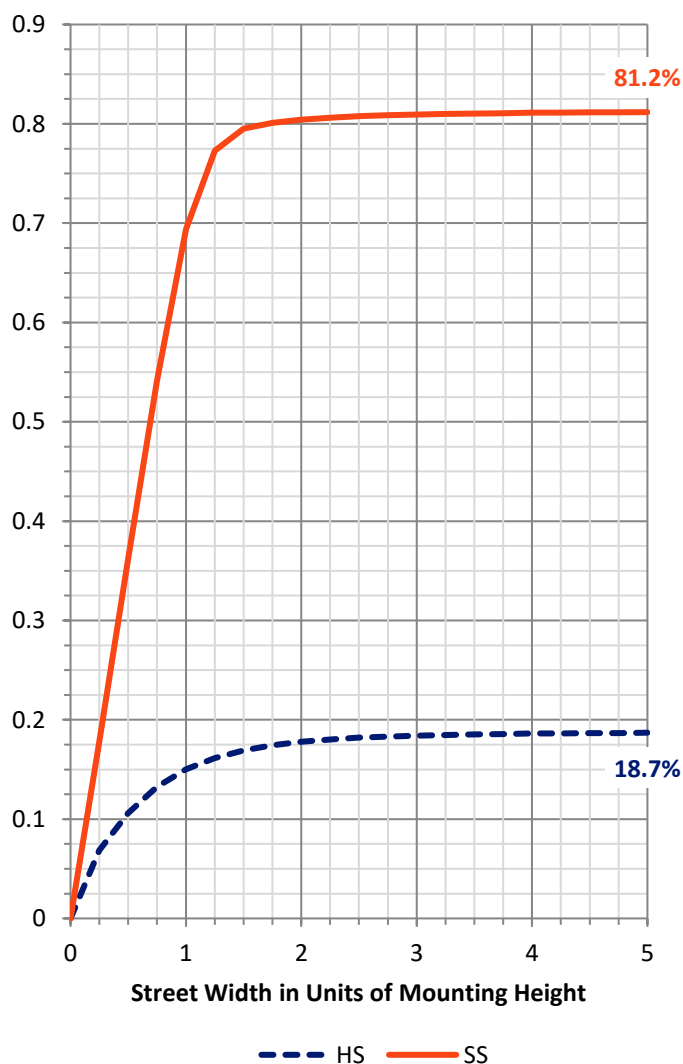
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4042.4	0.0	4042.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17462.6	0.0	17462.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	21505.0	0.0	21505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.7	2.6
10°-20°	1497.5	7.0
20°-30°	2522.5	11.7
30°-40°	4233.0	19.7
40°-50°	6475.4	30.1
50°-60°	4721.1	22.0
60°-70°	1050.7	4.9
70°-80°	379.0	1.8
80°-90°	67.1	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°	21505.0	100.0
0°-180°	21505.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530022

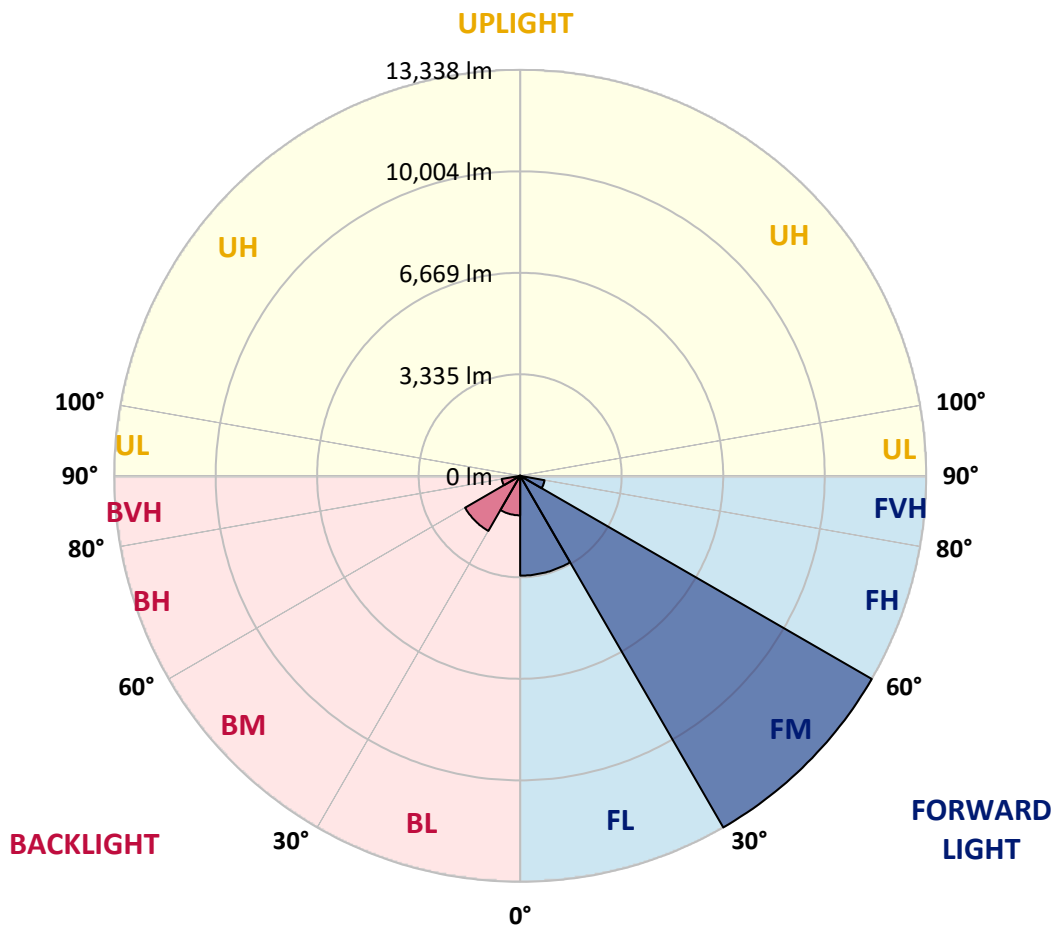
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3280.2	15.3			
FM (30°-60°)	13338.5	62.0			
FH (60°-80°)	813.8	3.8			G1/1800
FVH (80°-90°)	30.1	0.1			G1/100
BL (0°-30°)	1298.5	6.0	B3/2500		
BM (30°-60°)	2091.0	9.7	B2/2500		
BH (60°-80°)	615.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	37.0	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





REPORT NUMBER: P530022

CATALOG NUMBER: GALN-SA5B-727-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6061.9	6061.9	6061.9	6061.9	6061.9	6061.9	6061.9	6061.9	6061.9	6061.9	6061.9
2.5°	7137.4	7000.1	7015.6	6917.2	6810.9	6779.8	6670.9	6567.3	6489.5	6323.7	6170.8
5°	7800.9	7759.4	7697.2	7619.5	7539.2	7342.2	7230.7	7101.2	6816.1	6559.5	6305.5
7.5°	7896.8	7889.0	7922.7	7922.7	7951.2	7876.1	7718.0	7627.3	7324.0	6906.8	6435.1
10°	7223.0	7246.3	7409.6	7622.1	7917.5	8122.3	8096.4	8073.0	7741.3	7171.1	6588.0
12.5°	6686.5	6634.7	6730.6	6912.0	7355.1	7850.2	8184.5	8187.1	8101.5	7593.6	6699.5
15°	6383.3	6419.6	6445.5	6531.0	6865.3	7438.1	8026.4	8200.0	8575.8	7891.6	6875.7
17.5°	6577.6	6455.8	6450.7	6471.4	6642.4	7072.7	7733.5	8031.6	8835.0	8275.2	7093.4
20°	6831.6	6829.0	6756.5	6730.6	6728.0	7111.5	7541.7	7946.0	8972.3	8772.8	7313.7
22.5°	7277.4	7277.4	7158.2	7101.2	6979.4	7292.9	7567.7	7842.4	9200.4	9114.9	7419.9
25°	8023.8	7902.0	7697.2	7557.3	7487.3	7598.8	7842.4	8088.6	9400.0	9477.7	7640.2
27.5°	8713.2	8521.4	8420.3	8179.3	8086.0	8021.2	8244.1	8492.9	9633.2	10042.7	7759.4
30°	9495.9	9462.2	9280.8	8969.8	8739.1	8619.9	8824.6	9070.8	10060.8	10620.6	8034.2
32.5°	10895.4	10589.5	10343.3	9962.4	9586.6	9332.6	9534.7	9698.0	10771.0	11224.5	8334.8
35°	12406.3	12307.8	11882.8	11196.0	10620.6	10392.6	10511.8	10633.6	11597.7	12147.1	8840.2
37.5°	13891.3	13756.6	13406.7	12828.7	12129.0	11665.1	11750.6	11893.1	12525.5	13391.1	9457.0
40°	14959.1	14793.2	14617.0	14531.5	13836.9	13201.9	13152.7	13189.0	13779.9	14557.4	10141.2
42.5°	15036.8	15241.6	15296.0	15640.7	15477.4	14956.5	14653.3	14661.0	14977.2	15710.7	10833.2
45°	14873.6	14684.4	15086.1	16026.9	16565.9	16809.5	16299.0	16234.2	15718.4	16379.3	11177.8
47.5°	13160.5	13212.3	13891.3	15378.9	16936.5	18025.0	17905.8	17690.7	16115.0	16356.0	11123.4
50°	10402.9	10716.5	11346.3	13199.3	15899.9	18216.8	18919.1	18421.6	15879.1	15713.3	10568.8
52.5°	6927.5	7057.1	7471.8	9863.9	12784.7	16283.4	17752.9	17866.9	15661.4	14871.0	9866.5
55°	3084.1	3073.7	3656.8	5152.2	8021.2	12390.7	14505.5	15200.1	14824.3	14013.1	9182.3
57.5°	1306.2	1350.3	1588.7	2226.2	3944.5	7477.0	9827.6	10436.6	11400.7	11507.0	7044.1
60°	883.8	888.9	953.7	1114.4	1650.9	3511.7	5154.8	5885.7	6575.1	6528.4	3737.2
62.5°	694.6	712.7	761.9	826.7	979.6	1593.9	2306.6	2713.5	2757.5	2319.5	1417.6
65°	593.5	596.1	645.3	699.7	767.1	927.8	1111.8	1132.6	1145.5	1104.0	1041.8
67.5°	489.8	495.0	533.9	596.1	658.3	710.1	761.9	787.9	847.5	964.1	948.5
70°	388.7	396.5	430.2	482.0	539.1	570.2	635.0	658.3	712.7	803.4	839.7
72.5°	295.4	298.0	326.5	362.8	414.7	445.8	500.2	526.1	562.4	640.1	673.8
75°	212.5	220.3	241.0	259.2	266.9	287.7	339.5	368.0	419.8	453.5	456.1
77.5°	111.4	116.6	121.8	121.8	147.7	186.6	220.3	235.8	272.1	298.0	285.1
80°	44.1	46.6	59.6	80.3	103.7	134.8	158.1	165.9	197.0	212.5	220.3
82.5°	25.9	28.5	38.9	57.0	75.2	95.9	114.0	121.8	142.5	160.7	165.9
85°	13.0	15.5	23.3	36.3	49.2	59.6	57.0	54.4	54.4	51.8	54.4
87.5°	5.2	5.2	7.8	7.8	7.8	10.4	13.0	13.0	13.0	15.5	15.5
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: P530022

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6061.9	6061.9	6061.9	6061.9	6061.9	6061.9	6061.9	6061.9	6061.9	6061.9	6061.9
2.5°	6069.7	5966.0	5870.1	5693.9	5502.1	5447.7	5224.8	5144.5	5087.4	5020.1	4999.3
5°	6100.8	5963.4	5655.0	5300.0	5017.5	4654.6	4416.2	4159.6	3973.0	3926.4	3913.4
7.5°	6165.6	5929.7	5398.4	4862.0	4284.0	3791.6	3415.8	3213.7	3034.8	3024.5	3006.3
10°	6238.1	5828.7	5118.5	4276.2	3537.6	3081.5	2856.0	2767.9	2723.8	2713.5	2708.3
12.5°	6297.7	5807.9	4804.9	3706.1	3008.9	2734.2	2666.8	2659.0	2677.2	2682.4	2692.7
15°	6323.7	5725.0	4426.6	3195.5	2679.8	2578.7	2607.2	2638.3	2651.3	2685.0	2659.0
17.5°	6372.9	5618.7	3960.1	2791.2	2495.8	2513.9	2563.2	2599.4	2620.2	2643.5	2609.8
20°	6398.8	5522.8	3522.1	2550.2	2431.0	2464.7	2532.1	2560.6	2586.5	2596.8	2558.0
22.5°	6375.5	5325.9	3135.9	2355.8	2368.8	2412.8	2472.4	2503.5	2488.0	2446.5	2423.2
25°	6313.3	5048.6	2734.2	2231.4	2280.7	2358.4	2405.1	2381.7	2353.2	2329.9	2322.1
27.5°	6310.7	4709.1	2443.9	2117.4	2205.5	2311.8	2296.2	2275.5	2288.4	2270.3	2249.6
30°	6323.7	4379.9	2205.5	2052.6	2151.1	2202.9	2221.1	2200.3	2215.9	2182.2	2192.5
32.5°	6256.3	4058.5	2050.0	1977.4	2086.3	2083.7	2143.3	2158.9	2122.6	2052.6	2063.0
35°	6284.8	3799.4	1917.8	1943.7	2013.7	2013.7	2060.4	2042.2	1946.3	1904.9	1915.2
37.5°	6481.8	3545.4	1853.0	1897.1	1943.7	1964.5	1948.9	1871.2	1847.9	1847.9	1853.0
40°	6668.4	3327.7	1814.2	1886.7	1879.0	1891.9	1777.9	1785.7	1785.7	1788.2	1775.3
42.5°	6834.2	3180.0	1783.1	1824.5	1837.5	1770.1	1700.1	1692.4	1710.5	1707.9	1697.5
45°	6893.8	3058.2	1739.0	1754.6	1764.9	1653.5	1619.8	1604.2	1625.0	1632.7	1643.1
47.5°	6665.8	2957.1	1689.8	1658.7	1637.9	1565.4	1521.3	1492.8	1518.7	1562.8	1573.1
50°	6372.9	2824.9	1612.0	1552.4	1508.3	1477.2	1446.1	1417.6	1435.8	1466.9	1459.1
52.5°	5940.1	2617.6	1513.5	1451.3	1376.2	1383.9	1355.4	1339.9	1350.3	1350.3	1342.5
55°	5323.3	2151.1	1347.7	1303.6	1241.4	1262.1	1267.3	1246.6	1225.9	1244.0	1228.4
57.5°	3633.5	1518.7	1202.5	1202.5	1140.3	1168.8	1166.2	1117.0	1067.8	1072.9	1062.6
60°	2101.8	1210.3	1109.2	1098.9	1034.1	1057.4	1062.6	1028.9	953.7	958.9	948.5
62.5°	1194.8	1034.1	969.3	953.7	940.8	961.5	961.5	917.4	852.7	857.8	847.5
65°	1015.9	958.9	865.6	863.0	857.8	863.0	842.3	795.6	738.6	715.3	717.9
67.5°	922.6	886.3	795.6	772.3	756.8	754.2	715.3	671.2	645.3	624.6	622.0
70°	808.6	780.1	712.7	681.6	666.1	629.8	590.9	562.4	526.1	515.7	526.1
72.5°	640.1	637.5	611.6	577.9	544.2	515.7	482.0	443.2	409.5	401.7	383.6
75°	443.2	448.4	453.5	448.4	419.8	383.6	344.7	313.6	272.1	248.8	243.6
77.5°	290.3	298.0	305.8	295.4	277.3	243.6	217.7	178.8	147.7	129.6	127.0
80°	212.5	222.9	228.1	220.3	199.6	173.6	145.1	114.0	90.7	75.2	75.2
82.5°	163.3	173.6	178.8	165.9	145.1	124.4	103.7	80.3	62.2	49.2	46.6
85°	57.0	54.4	64.8	67.4	80.3	75.2	62.2	46.6	36.3	25.9	23.3
87.5°	15.5	15.5	18.1	18.1	15.5	13.0	13.0	13.0	10.4	7.8	7.8
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)