

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: P455082

Luminaire Tested: **GALN-SA6B-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28759 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

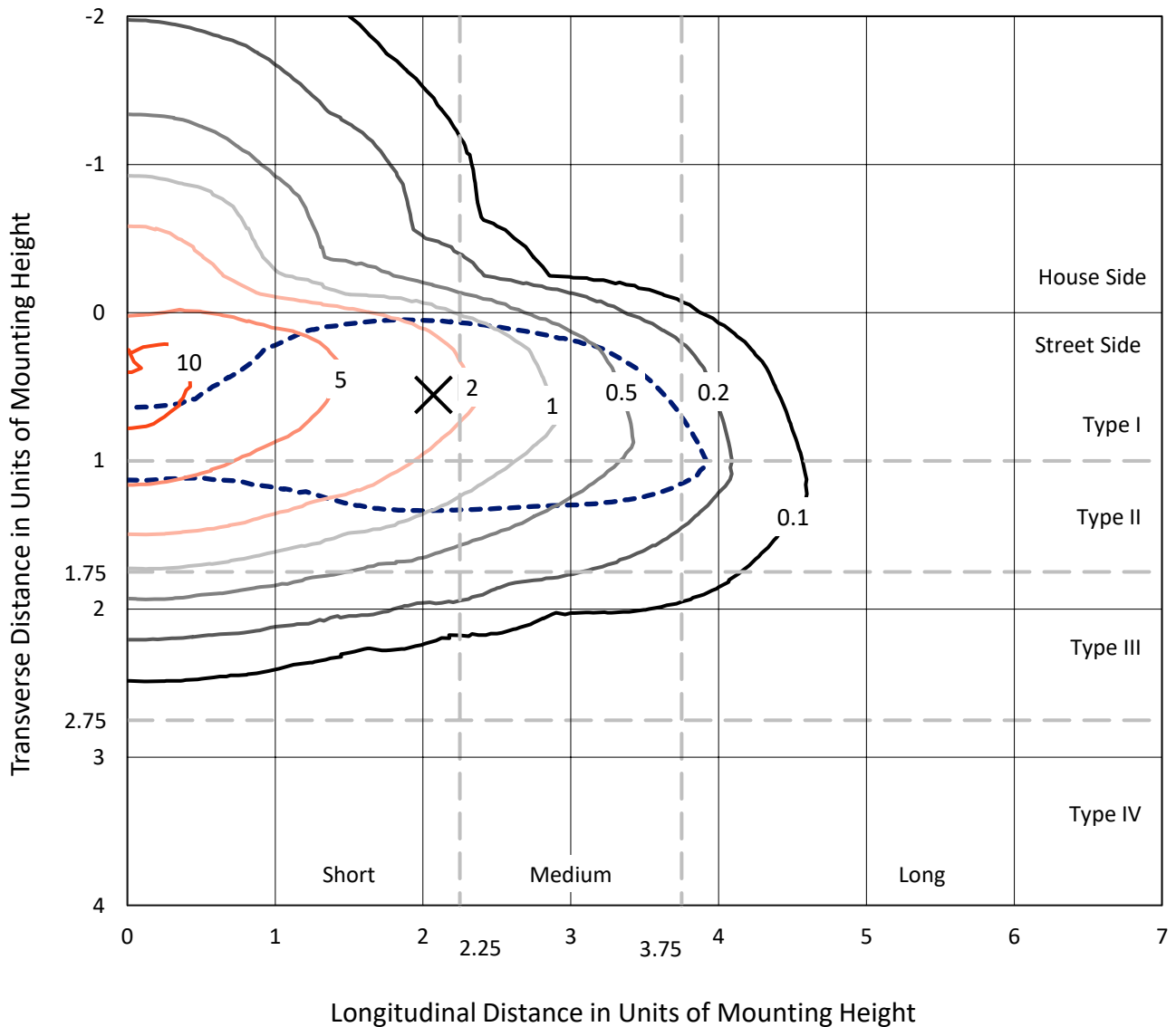
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455082
 CATALOG NUMBER: GALN-SA6B-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

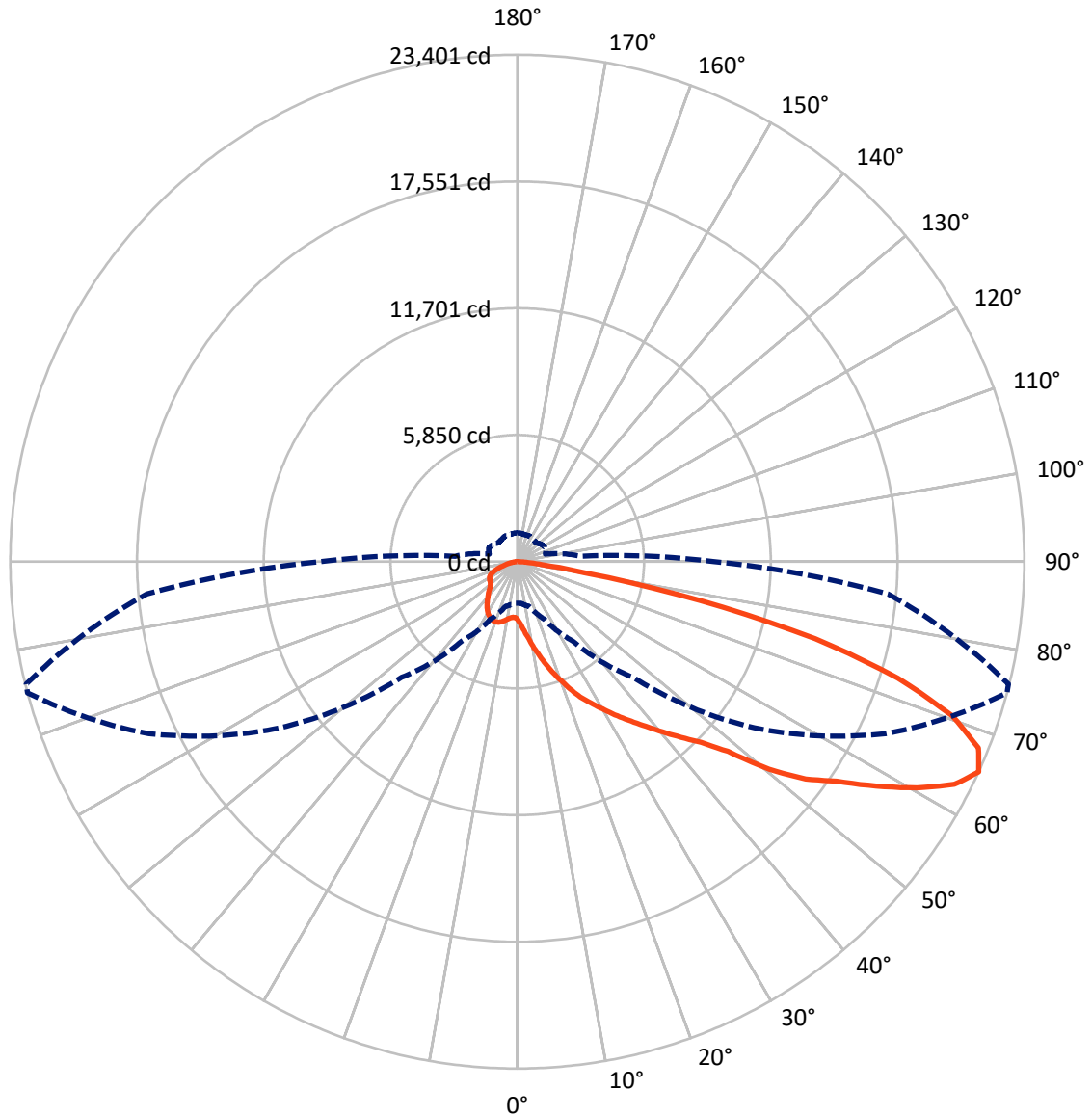
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

REPORT NUMBER: P455082
CATALOG NUMBER: GALN-SA6B-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P455082

CATALOG NUMBER: GALN-SA6B-727-U-T2R

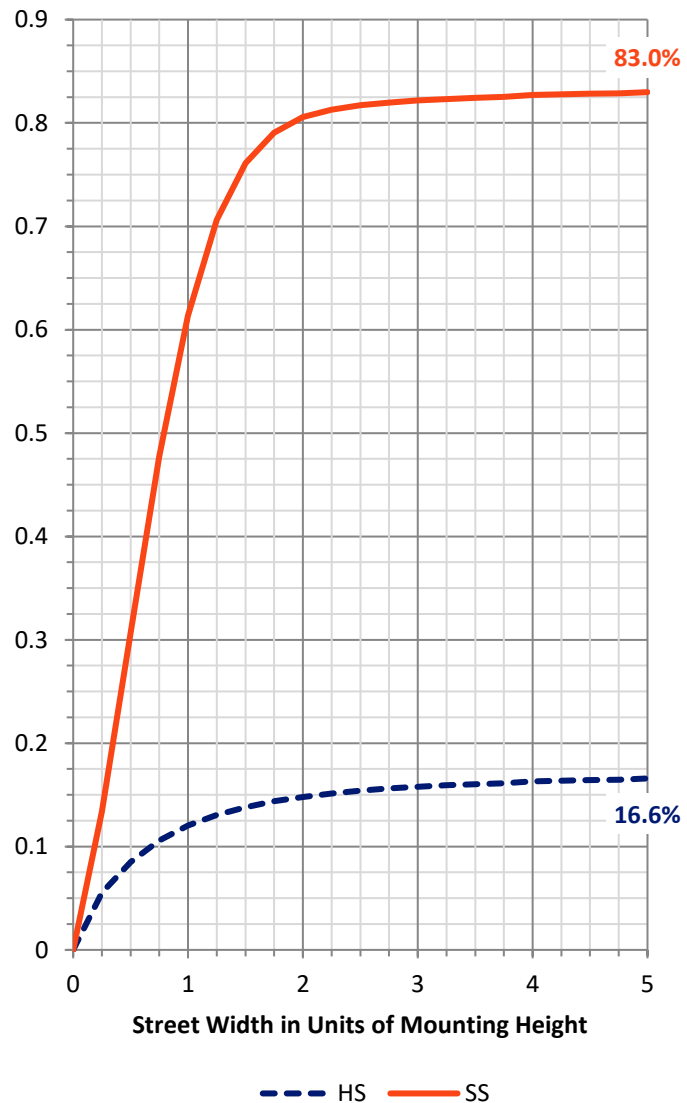
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4834.8	0.0	4834.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	23924.2	0.0	23924.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	28759.0	0.0	28759.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.7	1.1
10°-20°	1271.6	4.4
20°-30°	2456.3	8.5
30°-40°	3989.8	13.9
40°-50°	5488.3	19.1
50°-60°	6479.8	22.5
60°-70°	5677.4	19.7
70°-80°	2710.4	9.4
80°-90°	360.7	1.3
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°	28759.0	100.0
0°-180°	28759.0	100.0



REPORT NUMBER: P455082

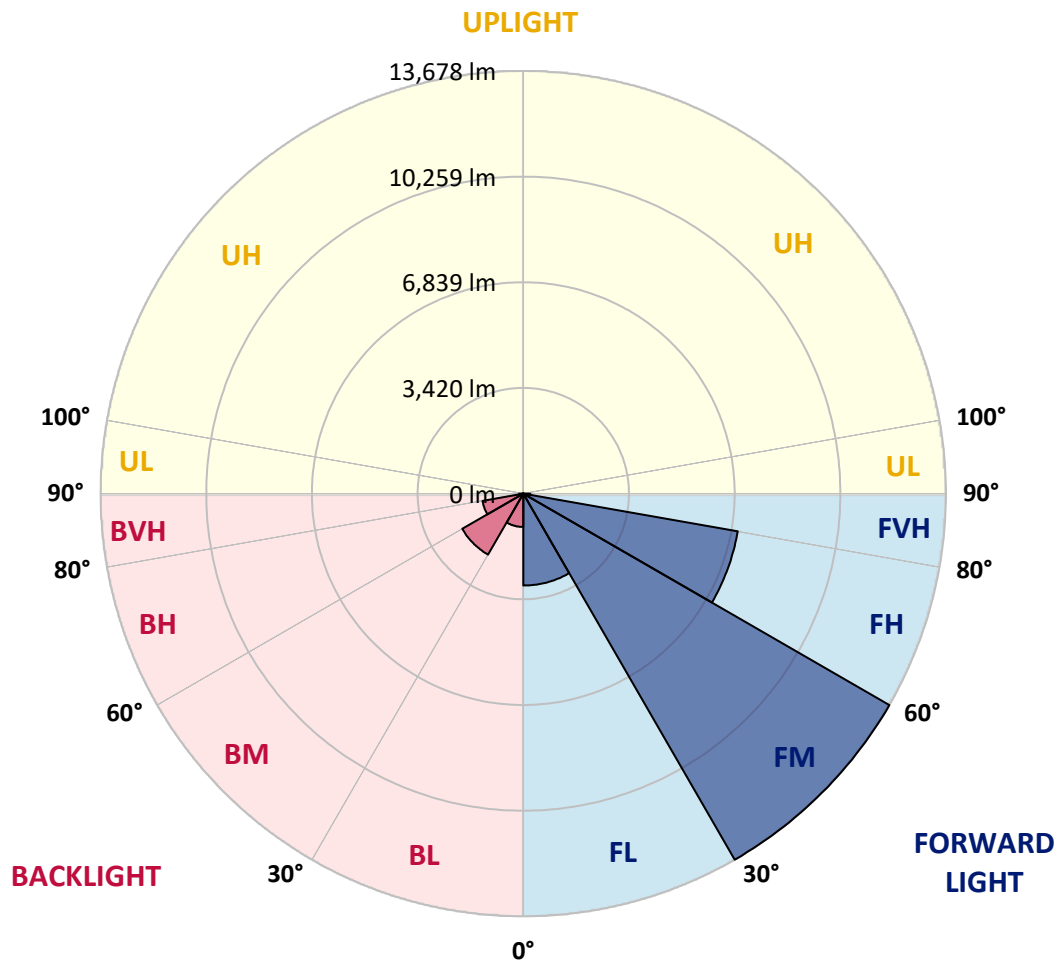
CATALOG NUMBER: GALN-SA6B-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2973.2	10.3			
FM	(30°-60°)	13678.4	47.6			
FH	(60°-80°)	7047.2	24.5			G3/7500
FVH	(80°-90°)	225.4	0.8			G3/500
BL	(0°-30°)	1079.3	3.8	B3/2500		
BM	(30°-60°)	2279.6	7.9	B2/2500		
BH	(60°-80°)	1340.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	135.3	0.5			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: P455082

CATALOG NUMBER: GALN-SA6B-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2672.1	2672.1	2672.1	2672.1	2672.1	2672.1	2672.1	2672.1	2672.1	2672.1	2672.1
2.5°	3550.3	3526.9	3501.9	3433.3	3360.0	3277.3	3158.8	3044.9	2893.6	2888.9	2776.6
5°	4534.6	4519.0	4408.2	4344.3	4174.2	3948.1	3756.2	3458.3	3182.2	3149.4	2931.0
7.5°	5439.3	5378.5	5336.3	5220.9	5052.5	4762.3	4391.1	3988.6	3526.9	3483.2	3121.3
10°	6121.0	6114.7	6092.9	5993.1	5866.7	5578.1	5166.3	4589.2	3963.7	3877.9	3352.2
12.5°	6631.0	6635.7	6632.6	6631.0	6540.6	6295.7	5849.5	5241.2	4405.1	4344.3	3618.9
15°	6966.4	7013.2	7031.9	7109.9	7117.7	6953.9	6570.2	5871.4	4902.7	4812.2	3905.9
17.5°	7187.9	7211.3	7298.7	7431.3	7538.9	7509.3	7167.6	6454.8	5411.2	5259.9	4203.9
20°	7400.1	7440.6	7507.7	7688.6	7879.0	7966.3	7726.1	7052.2	5915.1	5818.4	4533.0
22.5°	7841.5	7899.2	7922.6	8014.7	8176.9	8331.3	8222.1	7624.7	6467.3	6336.2	4882.4
25°	8588.7	8649.5	8584.0	8562.2	8615.2	8691.7	8668.3	8164.4	6988.3	6801.1	5213.1
27.5°	9562.1	9569.9	9442.0	9320.3	9189.3	9150.3	9078.5	8643.3	7440.6	7284.6	5545.4
30°	10607.2	10569.7	10357.6	10137.7	9916.2	9697.8	9491.9	9105.0	7944.5	7765.1	5871.4
32.5°	11577.4	11557.2	11321.6	10980.0	10605.6	10399.7	9983.2	9571.4	8484.2	8311.0	6206.8
35°	12304.3	12334.0	12075.0	11702.2	11293.5	11111.0	10585.3	10061.2	9042.6	8853.9	6571.8
37.5°	12820.7	12805.1	12575.8	12252.9	11894.1	11735.0	11288.9	10596.3	9643.2	9462.2	6971.1
40°	13004.7	12995.4	12825.3	12589.8	12362.0	12305.9	12025.1	11173.4	10331.1	10118.9	7451.5
42.5°	12887.7	12908.0	12795.7	12731.7	12689.6	12730.2	12756.7	11930.0	11081.4	10886.4	7972.5
45°	12529.0	12518.0	12502.4	12606.9	12844.1	13110.8	13480.5	12644.4	11897.2	11741.2	8671.4
47.5°	11887.8	11965.8	12004.8	12293.4	12811.3	13443.0	14313.5	13602.2	13081.2	12945.4	9736.8
50°	10990.9	11053.3	11284.2	11797.4	12569.5	13567.8	15127.7	15168.3	15056.0	14801.7	10894.2
52.5°	9590.1	9686.9	10162.6	11103.2	12073.5	13516.4	15620.6	16511.3	16659.5	16469.2	12034.5
55°	8022.5	8158.2	8660.5	9894.3	11390.2	13235.6	15960.7	17289.7	17880.9	17704.6	13132.6
57.5°	6487.5	6631.0	7147.4	8342.2	10198.5	12614.7	16183.8	18157.0	19543.7	19314.4	14499.1
60°	4862.1	5011.9	5454.9	6685.6	8501.3	11401.2	16032.4	18908.9	21205.0	21106.7	15867.1
62.5°	3136.9	3302.3	3687.6	4706.2	6534.3	9743.0	15222.9	19323.8	22643.2	22524.7	16865.4
65°	1910.9	1929.6	2141.7	2921.7	4472.2	7543.6	13371.3	18773.2	23401.3	23365.4	17169.6
67.5°	1235.4	1265.1	1361.8	1750.2	2681.4	5239.6	10691.4	16955.9	22958.3	22945.8	16541.0
70°	1043.6	1052.9	1096.6	1180.8	1558.3	3177.5	7507.7	14059.2	21275.2	21275.2	15029.4
72.5°	932.8	945.3	960.9	987.4	1112.2	1800.1	4480.0	10944.1	18369.1	18490.8	12792.6
75°	847.0	843.9	853.3	857.9	948.4	1176.1	2316.4	8094.2	14210.5	13967.2	9264.1
77.5°	725.3	730.0	725.3	745.6	837.7	895.4	1176.1	5431.5	8612.1	8297.0	4650.0
80°	595.9	603.7	611.5	624.0	716.0	680.1	706.6	2475.5	3185.3	3118.2	1436.6
82.5°	447.7	458.6	471.1	500.7	563.1	449.2	446.1	1057.6	1149.6	1052.9	528.8
85°	180.9	213.7	322.9	352.5	354.1	246.5	274.5	441.4	469.5	458.6	207.5
87.5°	42.1	49.9	104.5	157.5	145.1	92.0	101.4	143.5	163.8	151.3	70.2
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: P455082
 CATALOG NUMBER: GALN-SA6B-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2672.1	2672.1	2672.1	2672.1	2672.1	2672.1	2672.1	2672.1	2672.1	2672.1	2672.1
2.5°	2725.1	2670.5	2576.9	2505.2	2453.7	2408.5	2380.4	2363.2	2357.0	2355.4	2357.0
5°	2817.1	2720.4	2572.2	2478.6	2427.2	2397.5	2380.4	2378.8	2380.4	2381.9	2377.3
7.5°	2943.5	2804.7	2611.2	2523.9	2484.9	2463.1	2455.3	2452.1	2453.7	2452.1	2452.1
10°	3112.0	2921.7	2687.7	2597.2	2564.4	2539.5	2527.0	2519.2	2513.0	2506.7	2503.6
12.5°	3297.6	3051.1	2770.3	2683.0	2636.2	2597.2	2569.1	2548.8	2534.8	2520.8	2517.6
15°	3505.1	3188.4	2862.4	2740.7	2673.6	2615.9	2567.6	2534.8	2509.8	2489.6	2488.0
17.5°	3703.2	3317.9	2924.8	2767.2	2669.0	2587.8	2523.9	2478.6	2447.5	2420.9	2417.8
20°	3915.3	3441.1	2952.9	2750.1	2622.2	2523.9	2439.7	2385.1	2349.2	2319.5	2314.9
22.5°	4129.0	3545.6	2949.7	2695.5	2541.0	2425.6	2336.7	2279.0	2236.9	2207.2	2196.3
25°	4333.3	3629.8	2910.7	2608.1	2428.7	2308.6	2218.1	2165.1	2127.7	2091.8	2091.8
27.5°	4517.4	3679.8	2837.4	2502.0	2313.3	2187.0	2115.2	2066.8	2032.5	2009.1	1995.1
30°	4698.4	3703.2	2737.6	2367.9	2191.6	2084.0	2026.3	1998.2	1967.0	1940.5	1937.4
32.5°	4860.6	3698.5	2612.8	2236.9	2076.2	1999.8	1976.4	1954.5	1921.8	1884.3	1875.0
35°	5018.1	3667.3	2464.6	2093.4	1979.5	1949.8	1956.1	1924.9	1865.6	1818.8	1811.0
37.5°	5189.7	3611.1	2302.4	1976.4	1898.4	1926.5	1942.1	1873.4	1776.7	1703.4	1686.2
40°	5387.8	3547.2	2133.9	1859.4	1834.4	1904.6	1904.6	1778.3	1645.7	1600.4	1588.0
42.5°	5620.2	3494.1	1993.5	1761.1	1781.4	1851.6	1843.8	1651.9	1597.3	1573.9	1567.7
45°	5988.4	3475.4	1848.5	1675.3	1737.7	1789.2	1725.2	1608.2	1577.0	1558.3	1552.1
47.5°	6570.2	3497.3	1720.5	1611.4	1687.8	1726.8	1592.6	1578.6	1556.8	1530.2	1527.1
50°	7109.9	3477.0	1630.1	1575.5	1644.1	1651.9	1538.0	1542.7	1530.2	1500.6	1494.4
52.5°	7551.4	3413.0	1572.4	1556.8	1606.7	1520.9	1486.6	1503.7	1499.0	1461.6	1455.4
55°	8036.5	3374.0	1544.3	1556.8	1581.7	1407.0	1438.2	1463.2	1456.9	1430.4	1428.9
57.5°	8624.6	3381.8	1524.0	1561.4	1556.8	1349.3	1389.9	1419.5	1417.9	1410.1	1410.1
60°	9226.7	3384.9	1492.8	1559.9	1527.1	1304.1	1339.9	1382.1	1385.2	1389.9	1389.9
62.5°	9426.4	3249.2	1432.0	1531.8	1461.6	1260.4	1293.1	1350.9	1347.7	1360.2	1361.8
65°	9053.5	2873.3	1341.5	1467.8	1377.4	1229.2	1257.3	1310.3	1293.1	1325.9	1332.1
67.5°	8240.8	2377.3	1201.1	1352.4	1283.8	1196.4	1233.9	1254.1	1222.9	1286.9	1288.5
70°	7122.4	1856.3	1023.3	1188.6	1177.7	1162.1	1215.1	1183.9	1140.3	1218.3	1202.7
72.5°	5955.6	1417.9	817.4	971.8	1035.8	1110.6	1182.4	1093.5	1032.6	1056.0	1028.0
75°	4473.7	1048.2	656.7	761.2	862.6	1037.3	1152.8	984.3	890.7	868.9	862.6
77.5°	2280.5	684.8	491.4	569.4	647.4	937.5	1112.2	856.4	737.8	703.5	687.9
80°	814.3	425.8	346.3	393.1	436.8	806.5	971.8	708.2	572.5	566.2	572.5
82.5°	377.5	274.5	232.4	257.4	258.9	538.2	740.9	528.8	435.2	661.4	558.4
85°	162.2	137.3	131.0	127.9	118.6	240.2	416.5	283.9	443.0	198.1	182.5
87.5°	48.4	54.6	48.4	35.9	26.5	26.5	42.1	15.6	10.9	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)