

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: P648475

Luminaire Tested: **GALN-SA6B-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648475
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-SA6B-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26679.2 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

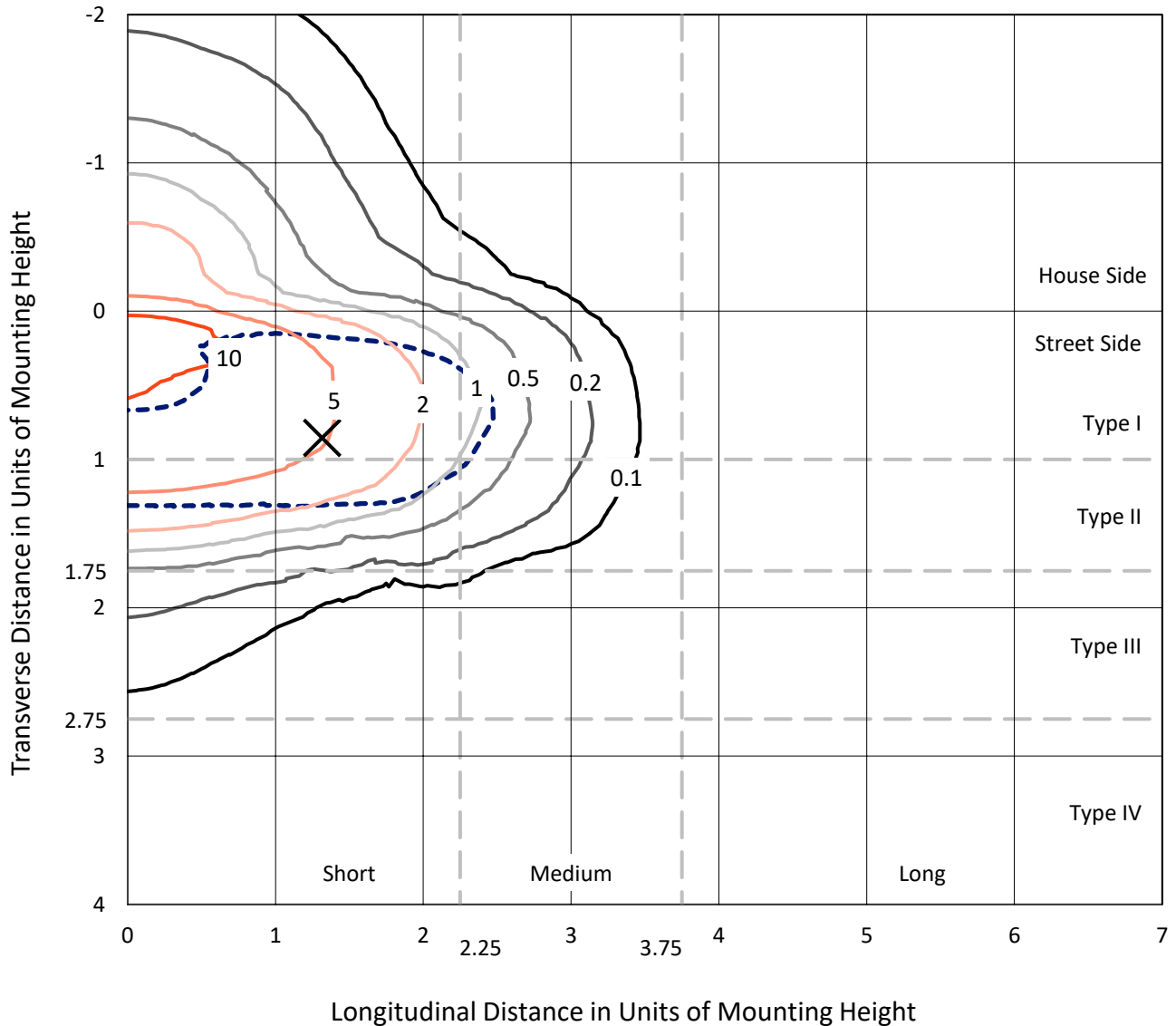
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

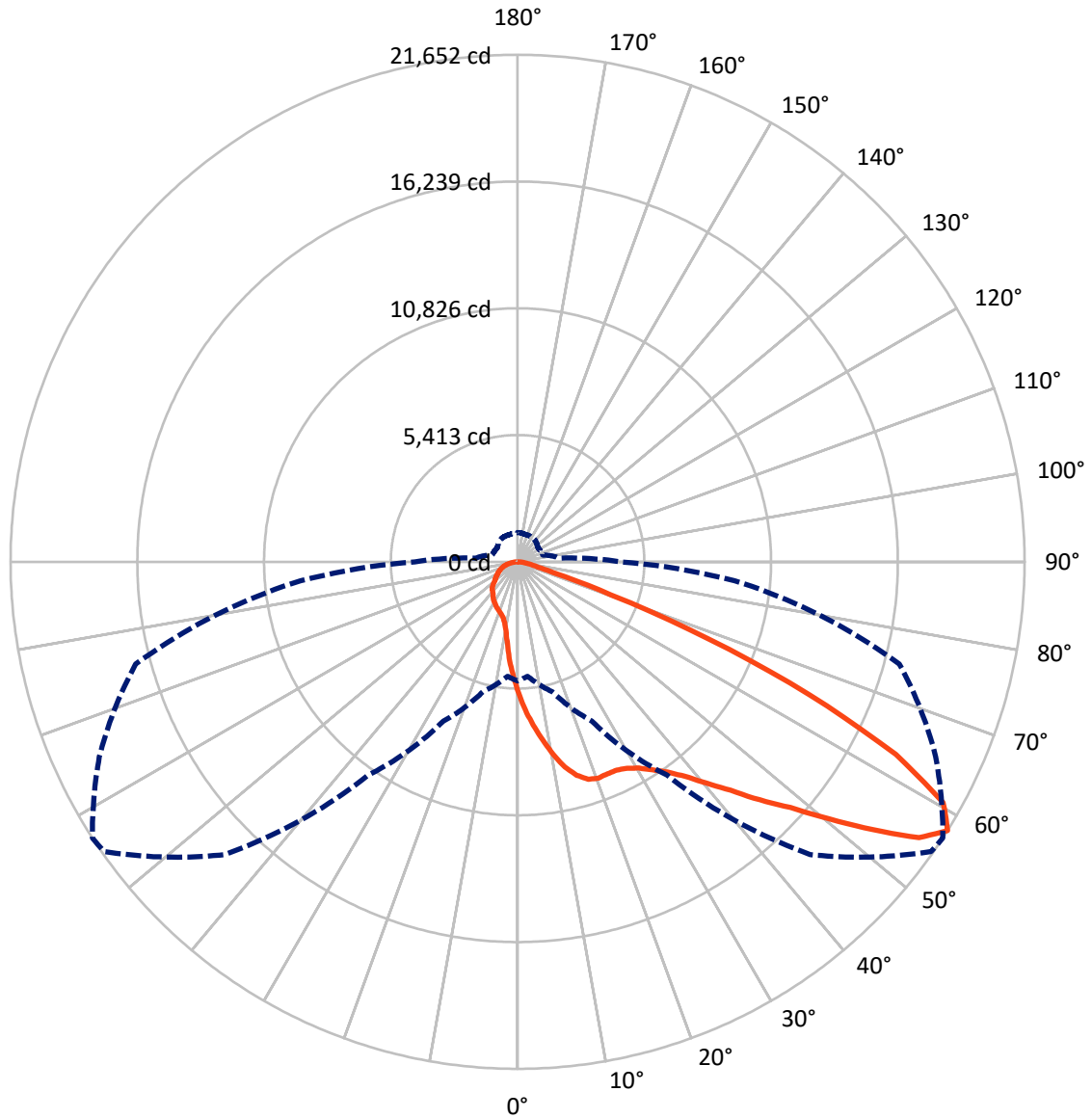
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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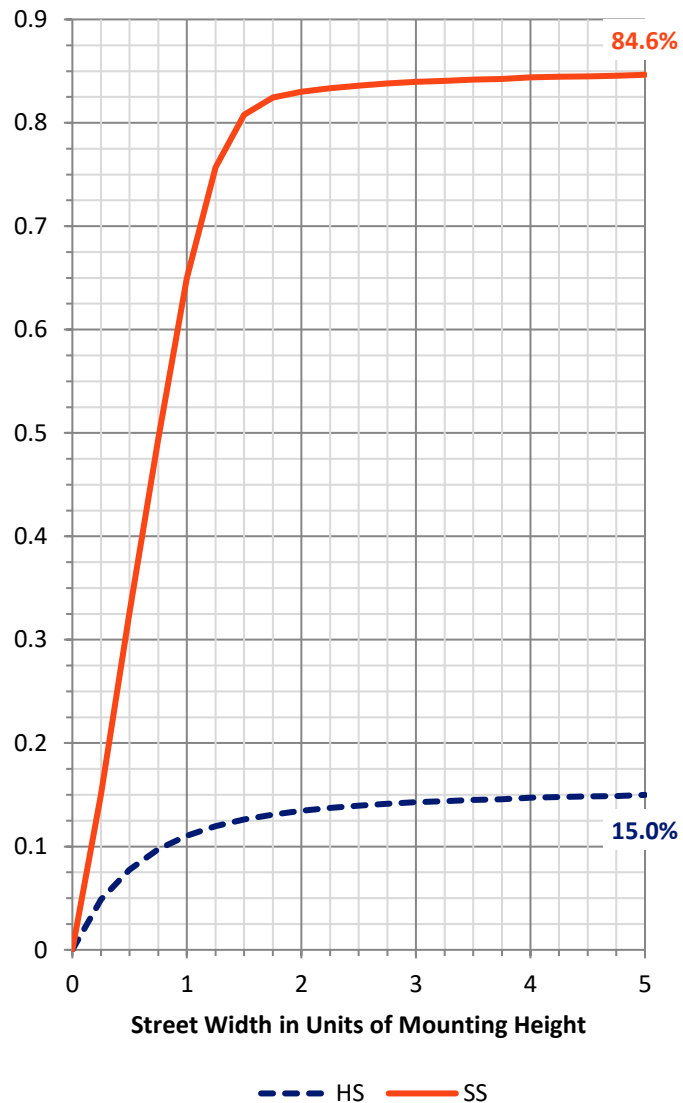
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4057.1	0.0	4057.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	22622.0	0.0	22622.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	26679.2	0.0	26679.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.7	2.0
10°-20°	1587.6	6.0
20°-30°	2636.2	9.9
30°-40°	3970.8	14.9
40°-50°	5961.8	22.3
50°-60°	6682.5	25.0
60°-70°	3910.9	14.7
70°-80°	1156.8	4.3
80°-90°	233.8	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°	26679.2	100.0
0°-180°	26679.2	100.0

Coefficient of Utilization



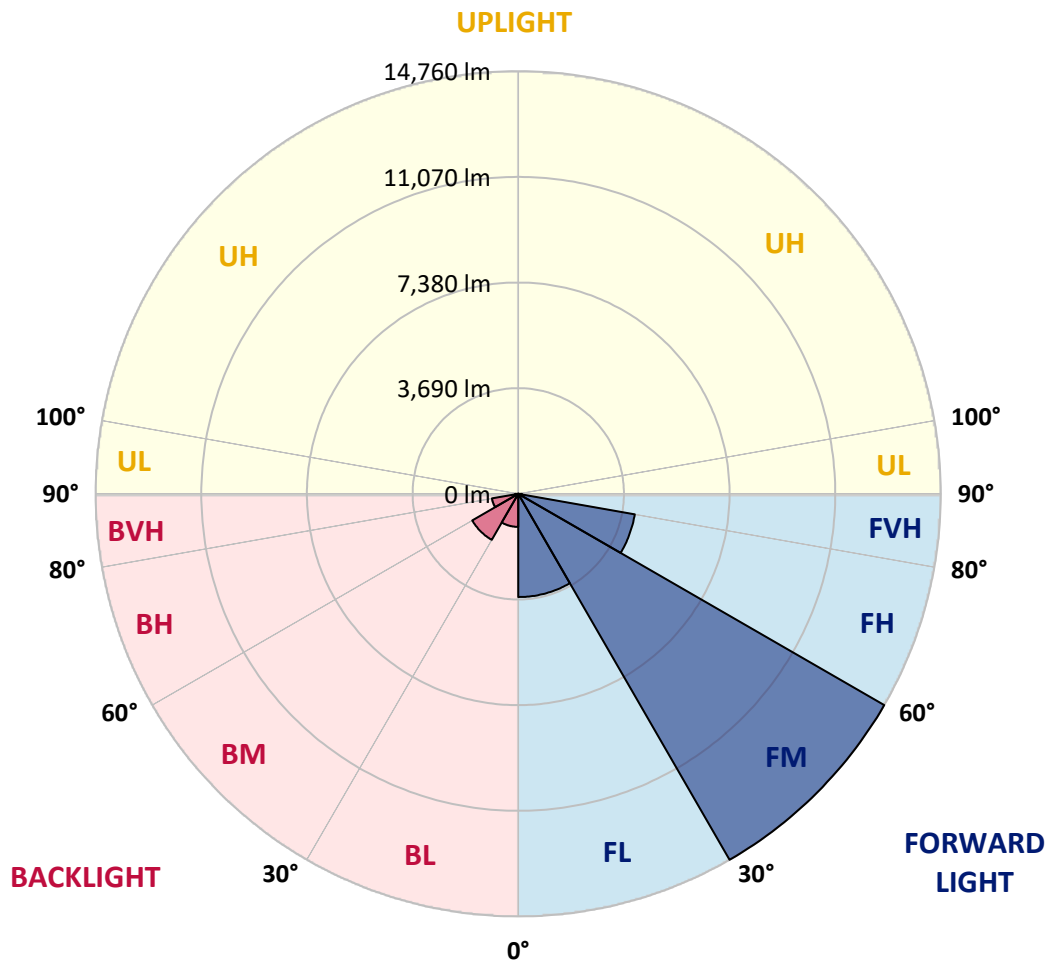
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3606.4	13.5			
FM (30°-60°)	14760.1	55.3			
FH (60°-80°)	4134.2	15.5			G2/5000
FVH (80°-90°)	121.3	0.5			G2/225
BL (0°-30°)	1156.0	4.3	B3/2500		
BM (30°-60°)	1855.1	7.0	B2/2500		
BH (60°-80°)	933.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	112.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5604.9	5604.9	5604.9	5604.9	5604.9	5604.9	5604.9	5604.9	5604.9	5604.9	5604.9
2.5°	6964.6	6888.7	6828.8	6776.2	6707.6	6522.1	6336.7	6333.7	6186.2	5958.4	5724.7
5°	8099.4	7997.1	8010.2	7846.7	7683.1	7414.4	7021.6	7001.1	6687.1	6260.7	5826.9
7.5°	8838.3	8839.8	8798.9	8705.4	8528.7	8223.5	7778.1	7677.3	7240.6	6593.6	5943.8
10°	8800.3	8839.8	8908.4	8988.7	9042.8	8892.3	8486.3	8363.7	7795.5	6996.7	6073.8
12.5°	8295.0	8356.3	8454.2	8655.8	8981.4	9229.7	9090.9	8991.7	8438.2	7398.3	6216.9
15°	7979.6	8016.1	8070.1	8205.9	8556.5	9150.8	9510.1	9457.5	9044.2	7852.6	6377.5
17.5°	7883.2	7919.7	7937.3	8020.5	8270.2	8879.2	9675.1	9768.6	9581.6	8270.2	6539.6
20°	7979.6	7997.1	7997.1	8046.7	8242.5	8720.0	9667.8	9856.2	10022.6	8771.1	6691.5
22.5°	8232.2	8239.5	8229.3	8246.9	8392.9	8763.8	9599.2	9832.8	10379.0	9196.1	6809.8
25°	8642.6	8654.3	8587.1	8546.2	8652.9	8956.6	9637.2	9851.8	10658.0	9602.1	6888.7
27.5°	9108.5	9123.0	9041.3	8946.4	8996.0	9194.6	9786.1	9978.9	10866.8	10002.2	6938.3
30°	9679.4	9685.3	9548.1	9434.1	9402.0	9549.5	10040.2	10219.8	11126.7	10474.0	7012.8
32.5°	10263.6	10307.4	10130.8	9970.1	9916.1	9961.3	10415.5	10589.3	11436.3	10980.7	7132.6
35°	11058.1	11065.4	10853.6	10658.0	10479.8	10538.2	10896.0	11021.6	11864.3	11566.3	7301.9
37.5°	12049.7	12116.8	11824.8	11459.7	11240.7	11155.9	11477.2	11614.5	12464.4	12284.8	7557.5
40°	13150.8	13175.7	12925.9	12698.1	12298.0	12052.6	12274.6	12423.5	13204.9	13142.1	7854.0
42.5°	13843.0	13897.1	13916.1	13892.7	13591.9	13180.0	13264.7	13334.9	14081.1	13946.7	8157.8
45°	14076.7	14157.0	14428.7	15004.1	15036.2	14630.2	14433.0	14500.2	15036.2	14758.7	8448.3
47.5°	13689.7	13827.0	14327.9	15507.9	16391.5	16422.1	15827.7	15680.2	15906.6	15432.0	8658.6
50°	12689.4	12718.6	13485.3	15194.0	17026.7	18135.1	17520.3	17245.8	16733.2	15930.0	8803.3
52.5°	11141.3	11174.9	11817.5	13735.0	16635.3	19332.7	19500.6	19009.9	17572.9	16316.9	8898.2
55°	8270.2	8464.5	9171.3	11024.5	14780.6	19220.2	21074.9	20796.0	18587.9	16623.6	9047.1
57.5°	5085.1	4906.9	5745.2	7500.6	11116.5	17675.1	21561.2	21651.8	19705.1	16880.7	9296.9
60°	2339.5	2374.6	2720.7	3868.6	6776.2	13827.0	20308.2	20880.7	20322.8	16871.9	9359.7
62.5°	1612.3	1580.2	1492.6	1698.4	3090.2	8744.9	17153.8	18123.5	19084.4	16347.6	9109.9
65°	1441.4	1409.2	1239.9	1183.0	1419.5	3811.6	12470.3	13694.1	16068.7	15024.5	8487.8
67.5°	1346.4	1302.7	1127.4	1016.4	1013.5	1517.4	7353.1	8826.6	11918.3	12702.5	7354.6
70°	1247.2	1212.2	1038.3	915.6	863.1	953.6	3231.8	4230.8	7738.6	9153.7	5729.1
72.5°	1147.9	1107.0	950.7	819.3	750.7	714.1	1238.4	1610.8	4372.4	5488.1	3512.2
75°	1003.3	982.8	849.9	741.9	667.4	576.8	785.7	896.7	2091.3	2520.6	1762.7
77.5°	877.7	855.8	755.0	648.4	594.4	468.8	557.9	609.0	882.0	1022.3	795.9
80°	642.6	664.5	636.7	572.5	530.1	368.0	375.3	417.7	524.3	579.8	486.3
82.5°	407.5	448.3	490.7	441.1	401.6	290.6	260.0	276.0	357.8	379.7	216.1
85°	170.9	173.7	284.8	268.7	229.3	172.3	156.3	165.1	191.3	200.1	100.8
87.5°	65.7	64.3	100.8	93.5	71.6	49.6	49.6	55.5	76.0	70.1	32.1
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°	5604.9	5604.9	5604.9	5604.9	5604.9	5604.9	5604.9	5604.9	5604.9	5604.9	5604.9
2.5°	5624.0	5520.3	5314.4	5058.8	4871.9	4661.6	4476.1	4343.2	4293.6	4270.2	4226.4
5°	5619.6	5415.1	4988.7	4541.8	4182.6	3814.5	3503.5	3301.9	3284.5	3150.1	3136.9
7.5°	5621.1	5308.5	4629.4	3972.2	3424.6	3047.8	2790.8	2723.7	2643.3	2622.9	2633.1
10°	5625.5	5172.7	4243.9	3408.6	2878.5	2631.7	2535.3	2509.0	2511.9	2520.6	2522.1
12.5°	5631.3	5041.3	3843.7	2980.6	2571.8	2469.5	2459.3	2482.7	2507.5	2526.5	2530.9
15°	5638.5	4890.9	3453.8	2636.0	2418.4	2409.7	2443.3	2482.7	2517.7	2545.5	2549.8
17.5°	5629.8	4715.6	3126.7	2424.2	2333.7	2376.1	2431.5	2481.2	2513.4	2539.7	2542.6
20°	5609.3	4519.9	2811.3	2275.3	2281.1	2349.8	2409.7	2456.3	2491.4	2504.6	2514.8
22.5°	5530.5	4286.2	2536.7	2159.9	2218.3	2313.3	2384.8	2412.6	2373.1	2345.4	2352.7
25°	5396.1	3982.5	2281.1	2066.5	2161.4	2262.2	2335.1	2268.0	2235.9	2224.2	2230.0
27.5°	5228.2	3649.5	2088.3	1968.6	2088.3	2205.2	2184.7	2173.1	2158.5	2139.5	2143.9
30°	5047.1	3323.8	1924.8	1892.7	2009.5	2076.7	2085.4	2104.4	2088.3	2059.1	2070.8
32.5°	4879.2	3017.1	1800.7	1828.4	1954.0	1943.8	2009.5	2031.4	1957.0	1859.1	1863.5
35°	4736.1	2732.4	1707.2	1765.6	1859.1	1863.5	1929.2	1853.2	1772.9	1726.2	1729.1
37.5°	4628.0	2510.4	1645.9	1711.6	1737.9	1793.4	1758.3	1718.9	1708.7	1676.6	1678.0
40°	4563.7	2316.2	1606.4	1669.2	1664.8	1702.8	1590.4	1629.8	1644.4	1634.2	1635.6
42.5°	4499.4	2178.9	1565.5	1610.8	1609.4	1534.8	1510.0	1543.6	1581.6	1586.0	1583.1
45°	4448.4	2072.3	1523.2	1521.8	1551.0	1434.1	1426.8	1447.2	1501.2	1527.6	1526.1
47.5°	4391.4	1983.2	1459.0	1418.0	1426.8	1371.3	1359.6	1368.4	1434.1	1476.4	1488.2
50°	4319.8	1894.2	1378.6	1323.1	1286.6	1312.9	1315.8	1317.2	1383.0	1431.2	1441.4
52.5°	4262.9	1827.0	1286.6	1245.8	1201.9	1260.3	1282.2	1285.1	1324.6	1364.0	1371.3
55°	4296.5	1789.0	1196.0	1166.8	1127.4	1206.3	1248.7	1254.4	1263.2	1292.4	1296.8
57.5°	4397.2	1797.8	1123.1	1085.1	1055.9	1142.0	1213.6	1218.0	1212.2	1247.2	1253.0
60°	4427.9	1793.4	1069.0	994.5	977.0	1073.4	1162.4	1171.2	1169.8	1220.9	1231.1
62.5°	4299.4	1737.9	1015.0	918.6	906.9	1003.3	1090.9	1126.0	1133.2	1206.3	1219.4
65°	3997.1	1623.9	943.4	838.3	838.3	928.8	1022.3	1070.4	1090.9	1188.8	1203.4
67.5°	3598.4	1489.6	870.4	769.6	766.7	857.2	949.2	998.9	1031.1	1163.9	1172.7
70°	2986.5	1308.5	779.9	695.1	695.1	776.9	860.2	920.0	966.8	1117.2	1117.2
72.5°	2046.0	1088.0	670.3	610.4	611.9	687.9	772.6	839.7	895.2	1023.8	1026.7
75°	1293.9	849.9	550.6	519.9	525.7	597.3	684.9	755.0	866.0	1012.0	1016.4
77.5°	687.9	597.3	438.1	430.8	438.1	503.9	601.7	698.0	868.9	877.7	863.1
80°	445.4	423.5	346.1	331.5	334.4	406.0	536.0	663.0	698.0	706.8	674.7
82.5°	242.4	268.7	245.3	230.8	230.8	316.9	457.1	527.2	500.9	416.2	397.2
85°	103.7	125.6	127.1	111.0	106.6	195.7	306.7	287.7	267.2	255.6	252.7
87.5°	29.2	40.9	40.9	30.7	23.3	54.0	61.3	17.5	0.0	1.5	2.9
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)