

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: P533922

Luminaire Tested: **GALN-SA9B-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533922
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-SA9B-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 34218 lumens
Efficiency: N/A
Efficacy: 94.0 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

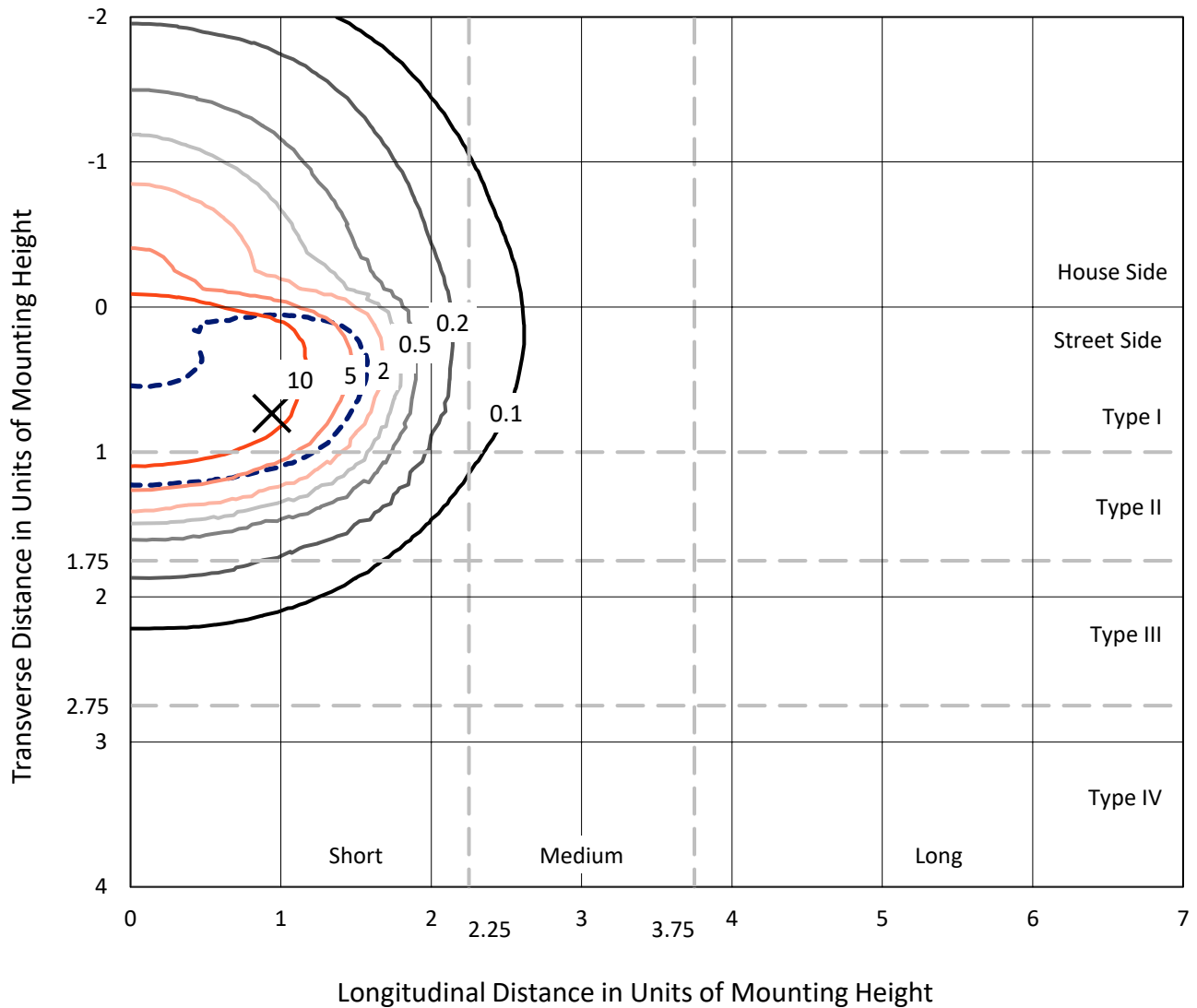
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533922
 CATALOG NUMBER: GALN-SA9B-827-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

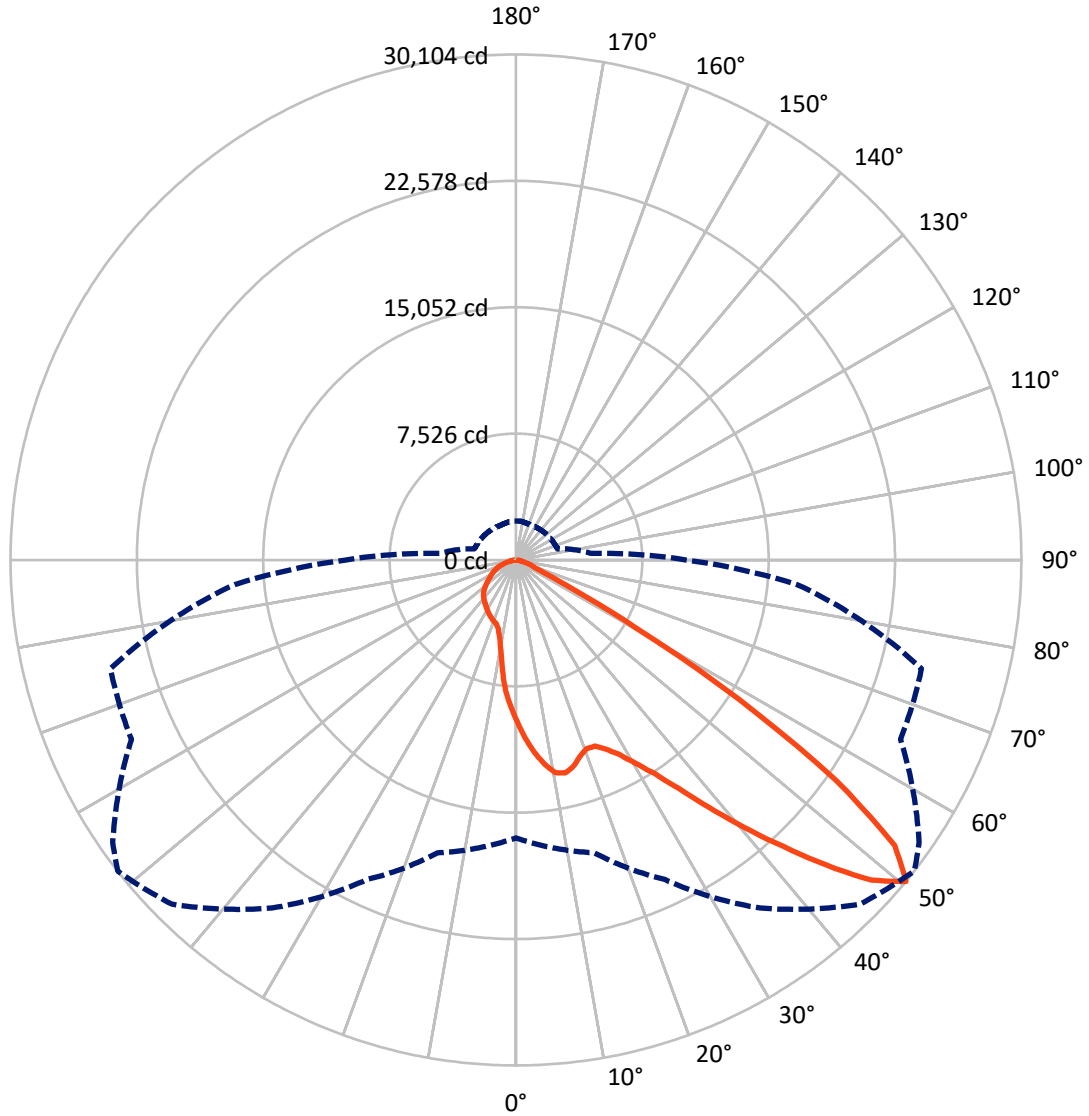
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type II - Short - N/A

REPORT NUMBER: P533922
CATALOG NUMBER: GALN-SA9B-827-U-AFL-GRSWH

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA9B-827-U-AFL-GRSWH

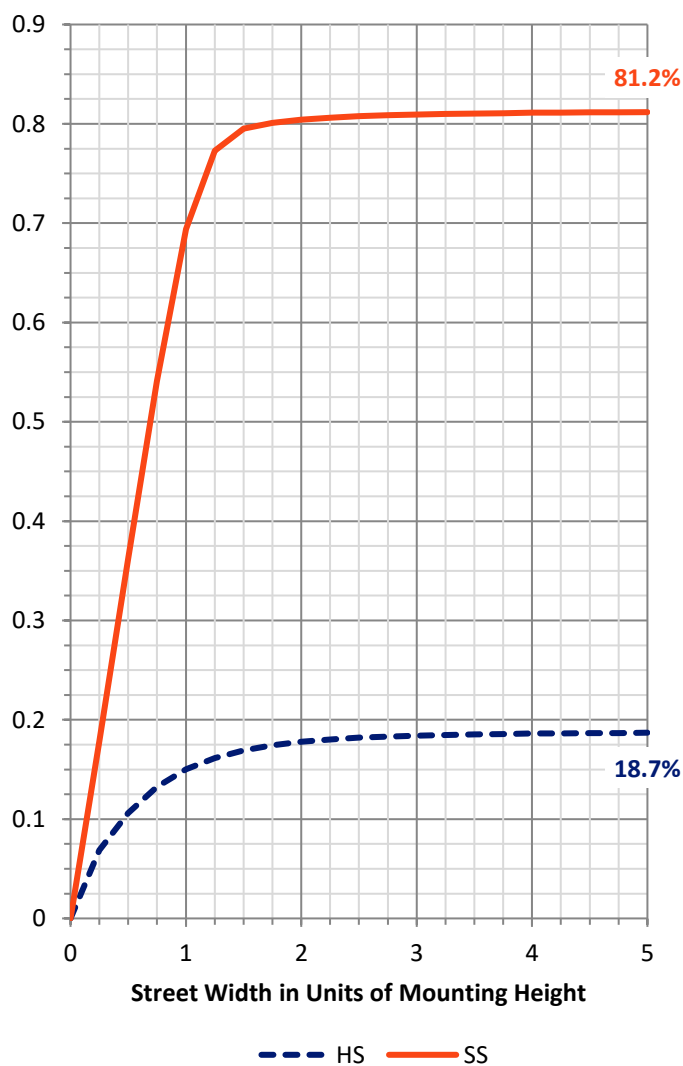
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6432.2	0.0	6432.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27785.8	0.0	27785.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	34218.0	0.0	34218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.0	2.6
10°-20°	2382.8	7.0
20°-30°	4013.7	11.7
30°-40°	6735.4	19.7
40°-50°	10303.5	30.1
50°-60°	7512.1	22.0
60°-70°	1671.8	4.9
70°-80°	603.0	1.8
80°-90°	106.7	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°	34218.0	100.0
0°-180°	34218.0	100.0

Coefficient of Utilization



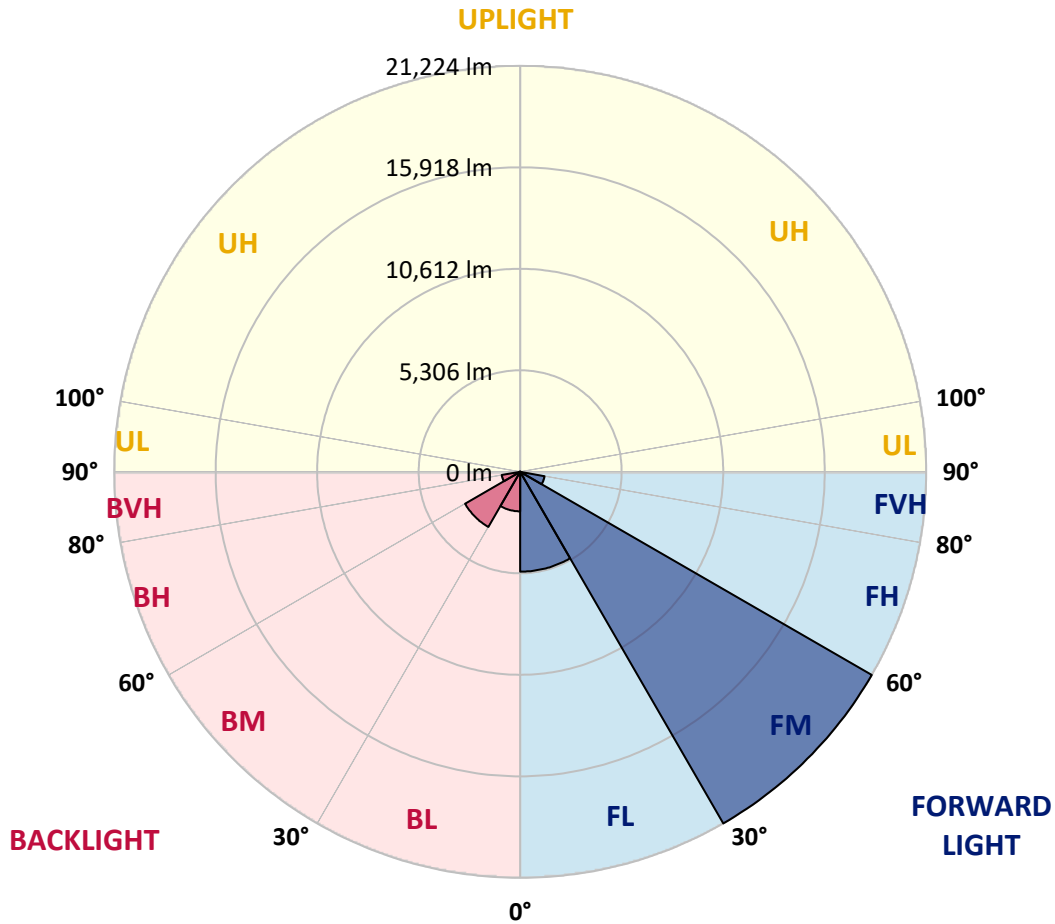
REPORT NUMBER: P533922
 CATALOG NUMBER: GALN-SA9B-827-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5219.4	15.3			
FM (30°-60°)	21223.7	62.0			
FH (60°-80°)	1294.8	3.8			G1/1800
FVH (80°-90°)	47.8	0.1			G1/100
BL (0°-30°)	2066.1	6.0	B3/2500		
BM (30°-60°)	3327.2	9.7	B3/5000		
BH (60°-80°)	980.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	58.9	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: P533922

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9645.5	9645.5	9645.5	9645.5	9645.5	9645.5	9645.5	9645.5	9645.5	9645.5	9645.5
2.5°	11356.8	11138.3	11163.0	11006.3	10837.3	10787.8	10614.6	10449.6	10325.9	10062.0	9818.7
5°	12412.5	12346.6	12247.6	12123.9	11996.0	11682.6	11505.3	11299.1	10845.5	10437.2	10033.1
7.5°	12565.1	12552.7	12606.4	12606.4	12651.7	12532.1	12280.6	12136.2	11653.8	10989.8	10239.3
10°	11492.9	11530.0	11789.8	12128.0	12598.1	12923.9	12882.6	12845.5	12317.7	11410.5	10482.6
12.5°	10639.3	10556.8	10709.4	10998.1	11703.2	12490.9	13022.9	13027.0	12890.9	12082.6	10659.9
15°	10156.8	10214.6	10255.8	10391.9	10923.9	11835.2	12771.3	13047.6	13645.5	12556.9	10940.3
17.5°	10466.1	10272.3	10264.1	10297.0	10569.2	11253.8	12305.3	12779.5	14057.9	13167.2	11286.7
20°	10870.2	10866.1	10750.7	10709.4	10705.3	11315.6	12000.2	12643.5	14276.5	13958.9	11637.3
22.5°	11579.5	11579.5	11389.8	11299.1	11105.3	11604.3	12041.4	12478.5	14639.4	14503.3	11806.3
25°	12767.2	12573.4	12247.6	12024.9	11913.6	12090.9	12478.5	12870.3	14956.9	15080.6	12156.9
27.5°	13864.1	13558.9	13398.1	13014.6	12866.1	12763.1	13117.7	13513.6	15328.0	15979.6	12346.6
30°	15109.5	15055.9	14767.2	14272.4	13905.3	13715.6	14041.4	14433.2	16008.5	16899.2	12783.7
32.5°	17336.3	16849.7	16457.9	15851.8	15253.8	14849.7	15171.3	15431.1	17138.4	17860.0	13262.0
35°	19740.5	19583.8	18907.5	17814.7	16899.2	16536.3	16726.0	16919.8	18453.8	19328.1	14066.2
37.5°	22103.4	21888.9	21332.2	20412.6	19299.2	18561.1	18697.2	18924.0	19930.2	21307.5	15047.6
40°	23802.4	23538.5	23258.0	23122.0	22016.8	21006.5	20928.1	20985.8	21926.1	23163.2	16136.3
42.5°	23926.1	24251.9	24338.5	24886.9	24627.1	23798.2	23315.8	23328.1	23831.2	24998.3	17237.3
45°	23666.3	23365.3	24004.4	25501.4	26359.1	26746.7	25934.4	25831.3	25010.6	26062.2	17785.8
47.5°	20940.5	21023.0	22103.4	24470.4	26948.8	28680.8	28491.1	28148.8	25641.6	26025.1	17699.2
50°	16552.8	17051.8	18053.8	21002.3	25299.3	28985.9	30103.5	29311.7	25266.3	25002.4	16816.7
52.5°	11022.8	11229.0	11888.8	15695.1	20342.5	25909.6	28247.8	28429.2	24919.9	23662.2	15699.2
55°	4907.3	4890.8	5818.6	8198.0	12763.1	19715.7	23080.7	24185.9	23587.9	22297.2	14610.5
57.5°	2078.4	2148.5	2527.9	3542.3	6276.4	11897.1	15637.3	16606.4	18140.4	18309.5	11208.4
60°	1406.2	1414.5	1517.5	1773.2	2626.8	5587.7	8202.2	9365.1	10462.0	10387.8	5946.5
62.5°	1105.2	1134.0	1212.4	1315.5	1558.8	2536.1	3670.2	4317.6	4387.7	3690.8	2255.7
65°	944.3	948.5	1026.8	1113.4	1220.6	1476.3	1769.1	1802.1	1822.7	1756.7	1657.8
67.5°	779.4	787.6	849.5	948.5	1047.4	1129.9	1212.4	1253.6	1348.5	1534.0	1509.3
70°	618.6	630.9	684.5	767.0	857.7	907.2	1010.3	1047.4	1134.0	1278.4	1336.1
72.5°	470.1	474.2	519.6	577.3	659.8	709.3	795.9	837.1	894.9	1018.6	1072.2
75°	338.1	350.5	383.5	412.4	424.7	457.7	540.2	585.6	668.0	721.7	725.8
77.5°	177.3	185.6	193.8	193.8	235.1	296.9	350.5	375.3	433.0	474.2	453.6
80°	70.1	74.2	94.8	127.8	165.0	214.4	251.5	263.9	313.4	338.1	350.5
82.5°	41.2	45.4	61.9	90.7	119.6	152.6	181.4	193.8	226.8	255.7	263.9
85°	20.6	24.7	37.1	57.7	78.4	94.8	90.7	86.6	86.6	82.5	86.6
87.5°	8.2	8.2	12.4	12.4	12.4	16.5	20.6	20.6	20.6	24.7	24.7
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: P533922

CATALOG NUMBER: GALN-SA9B-827-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9645.5	9645.5	9645.5	9645.5	9645.5	9645.5	9645.5	9645.5	9645.5	9645.5	9645.5
2.5°	9657.9	9492.9	9340.3	9059.9	8754.8	8668.2	8313.5	8185.7	8095.0	7987.7	7954.7
5°	9707.3	9488.8	8998.1	8433.1	7983.6	7406.3	7026.9	6618.6	6321.7	6247.5	6226.9
7.5°	9810.4	9435.2	8589.8	7736.2	6816.6	6033.1	5435.1	5113.5	4828.9	4812.4	4783.6
10°	9925.9	9274.3	8144.4	6804.2	5628.9	4903.2	4544.4	4404.2	4334.1	4317.6	4309.3
12.5°	10020.7	9241.4	7645.5	5897.0	4787.7	4350.6	4243.4	4231.0	4259.8	4268.1	4284.6
15°	10062.0	9109.4	7043.4	5084.6	4264.0	4103.1	4148.5	4198.0	4218.6	4272.2	4231.0
17.5°	10140.3	8940.3	6301.1	4441.3	3971.2	4000.1	4078.4	4136.1	4169.1	4206.2	4152.6
20°	10181.6	8787.7	5604.2	4057.8	3868.1	3921.7	4028.9	4074.3	4115.5	4132.0	4070.2
22.5°	10144.5	8474.3	4989.8	3748.5	3769.1	3839.2	3934.1	3983.6	3958.8	3892.8	3855.7
25°	10045.5	8033.1	4350.6	3550.6	3628.9	3752.6	3826.9	3789.7	3744.4	3707.3	3694.9
27.5°	10041.4	7492.9	3888.7	3369.1	3509.3	3678.4	3653.7	3620.7	3641.3	3612.4	3579.4
30°	10062.0	6969.2	3509.3	3266.0	3422.7	3505.2	3534.1	3501.1	3525.8	3472.2	3488.7
32.5°	9954.8	6457.8	3261.9	3146.4	3319.6	3315.5	3410.4	3435.1	3377.4	3266.0	3282.5
35°	10000.1	6045.4	3051.6	3092.8	3204.2	3204.2	3278.4	3249.5	3096.9	3031.0	3047.5
37.5°	10313.5	5641.3	2948.5	3018.6	3092.8	3125.8	3101.1	2977.4	2940.2	2940.2	2948.5
40°	10610.4	5294.9	2886.6	3002.1	2989.7	3010.3	2828.9	2841.3	2841.3	2845.4	2824.8
42.5°	10874.4	5059.9	2837.2	2903.1	2923.7	2816.5	2705.2	2692.8	2721.7	2717.6	2701.1
45°	10969.2	4866.0	2767.0	2791.8	2808.3	2631.0	2577.4	2552.6	2585.6	2598.0	2614.5
47.5°	10606.3	4705.2	2688.7	2639.2	2606.2	2490.8	2420.7	2375.3	2416.5	2486.6	2503.1
50°	10140.3	4494.9	2565.0	2470.1	2400.0	2350.5	2301.1	2255.7	2284.6	2334.1	2321.7
52.5°	9451.7	4165.0	2408.3	2309.3	2189.7	2202.1	2156.7	2132.0	2148.5	2148.5	2136.1
55°	8470.2	3422.7	2144.4	2074.3	1975.3	2008.3	2016.5	1983.5	1950.5	1979.4	1954.7
57.5°	5781.5	2416.5	1913.4	1913.4	1814.5	1859.8	1855.7	1777.3	1699.0	1707.2	1690.7
60°	3344.4	1925.8	1765.0	1748.5	1645.4	1682.5	1690.7	1637.1	1517.5	1525.8	1509.3
62.5°	1901.1	1645.4	1542.3	1517.5	1496.9	1529.9	1529.9	1459.8	1356.7	1365.0	1348.5
65°	1616.5	1525.8	1377.3	1373.2	1365.0	1373.2	1340.2	1266.0	1175.3	1138.2	1142.3
67.5°	1468.1	1410.3	1266.0	1228.9	1204.1	1200.0	1138.2	1068.1	1026.8	993.8	989.7
70°	1286.6	1241.3	1134.0	1084.6	1059.8	1002.1	940.2	894.9	837.1	820.6	837.1
72.5°	1018.6	1014.4	973.2	919.6	866.0	820.6	767.0	705.2	651.6	639.2	610.3
75°	705.2	713.4	721.7	713.4	668.0	610.3	548.5	499.0	433.0	395.9	387.6
77.5°	461.9	474.2	486.6	470.1	441.2	387.6	346.4	284.5	235.1	206.2	202.1
80°	338.1	354.6	362.9	350.5	317.5	276.3	230.9	181.4	144.3	119.6	119.6
82.5°	259.8	276.3	284.5	263.9	230.9	197.9	165.0	127.8	99.0	78.4	74.2
85°	90.7	86.6	103.1	107.2	127.8	119.6	99.0	74.2	57.7	41.2	37.1
87.5°	24.7	24.7	28.9	28.9	24.7	20.6	20.6	20.6	16.5	12.4	12.4
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)