

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: P458879

Luminaire Tested: **GALN-SA4A-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16949 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

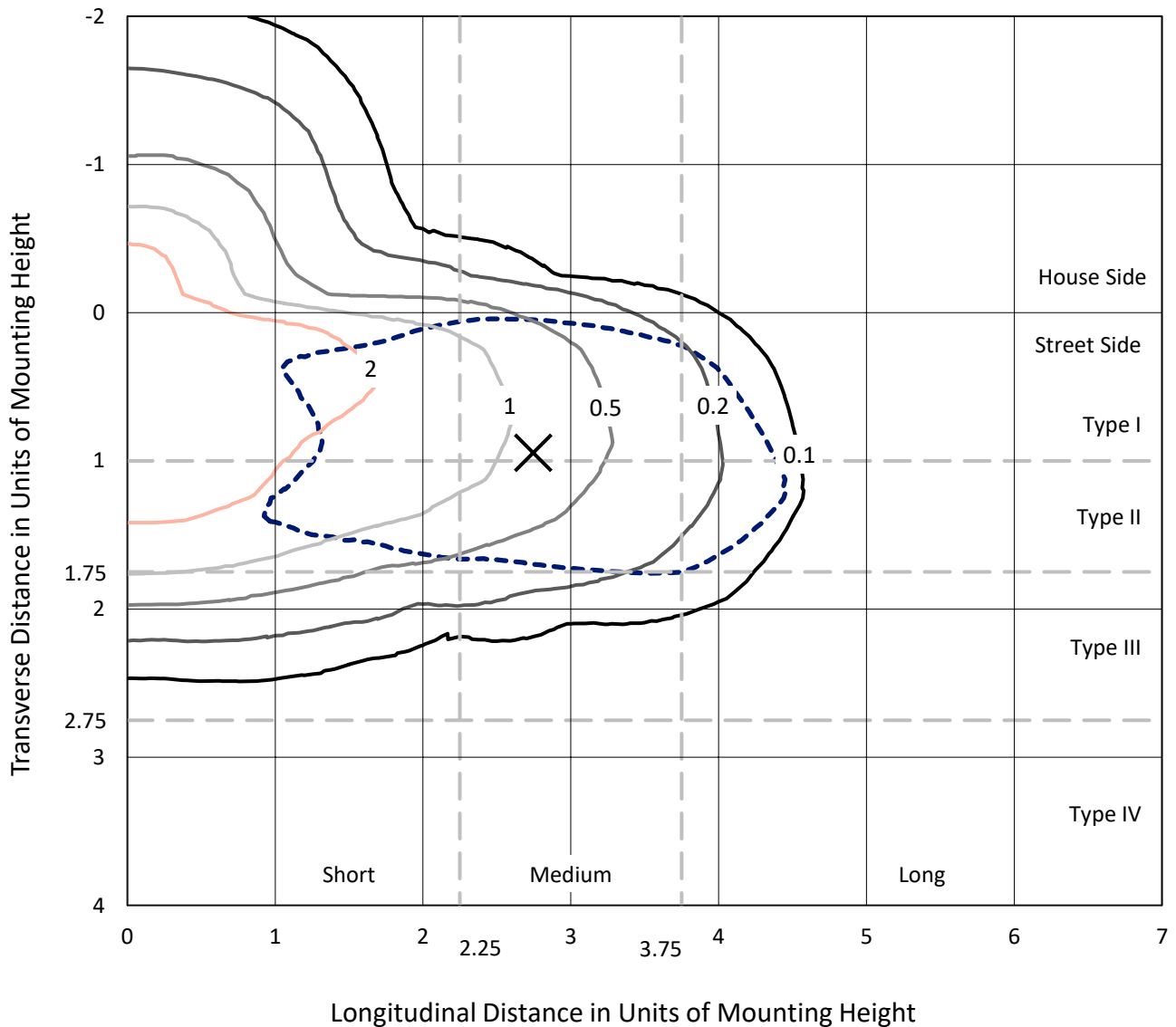
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

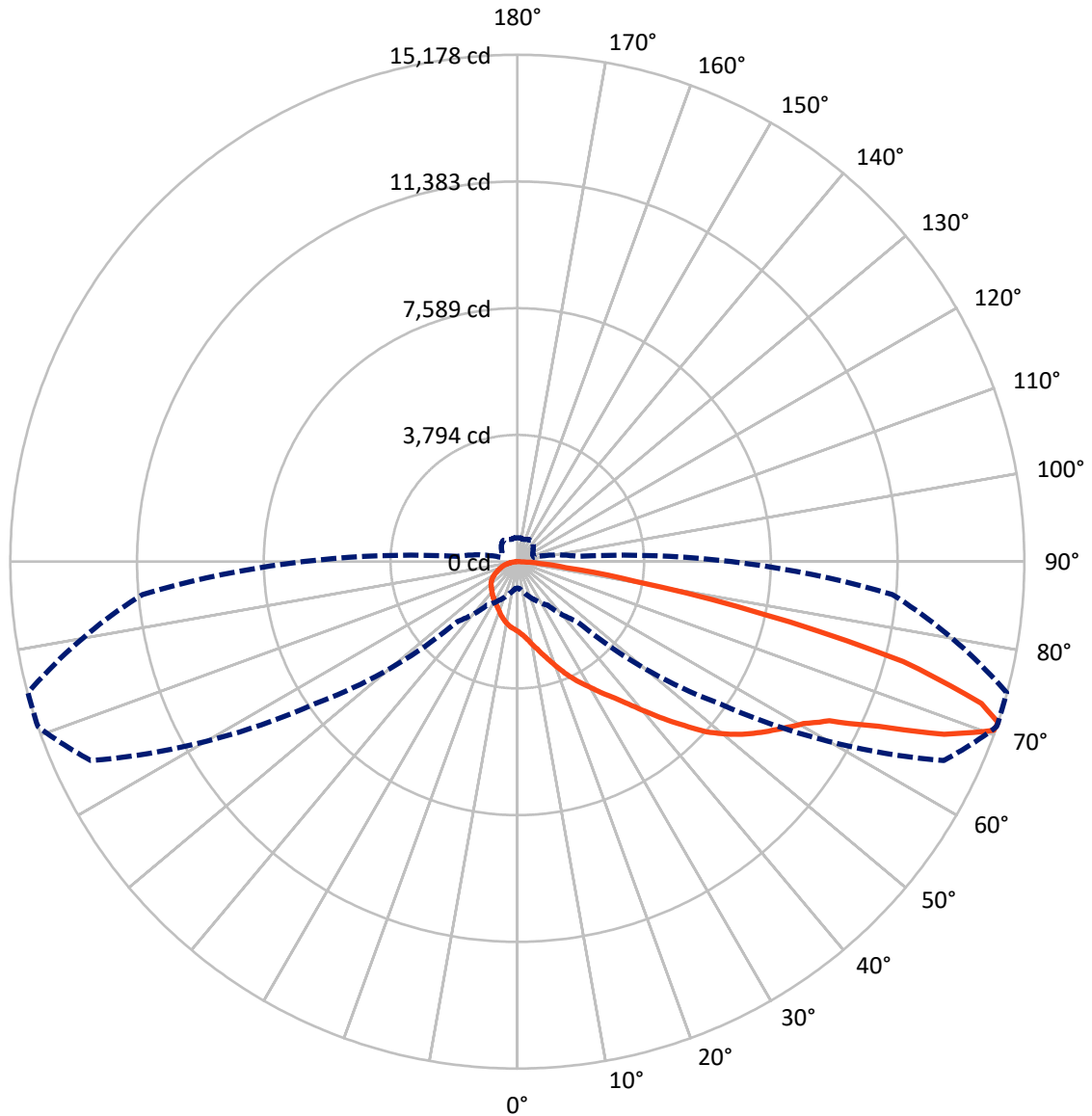
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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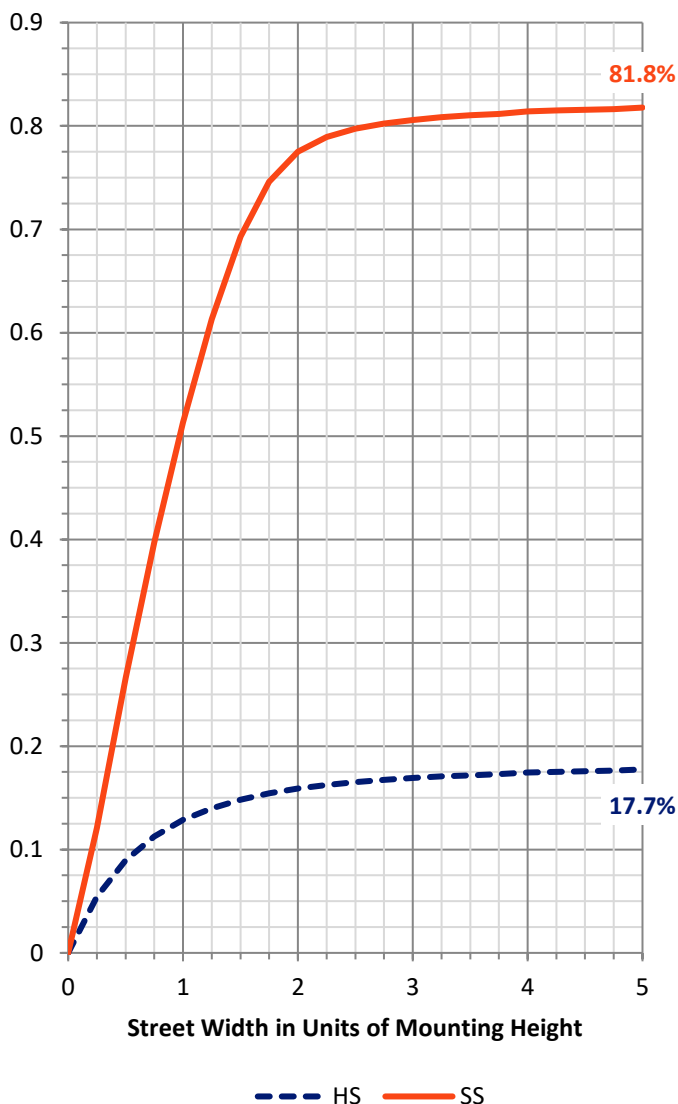
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3048.2	0.0	3048.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	13900.8	0.0	13900.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	16949.0	0.0	16949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	1.2
10°-20°	678.6	4.0
20°-30°	1185.9	7.0
30°-40°	1763.8	10.4
40°-50°	2598.8	15.3
50°-60°	3638.3	21.5
60°-70°	4069.3	24.0
70°-80°	2485.7	14.7
80°-90°	319.8	1.9
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°	16949.0	100.0
0°-180°	16949.0	100.0

Coefficient of Utilization



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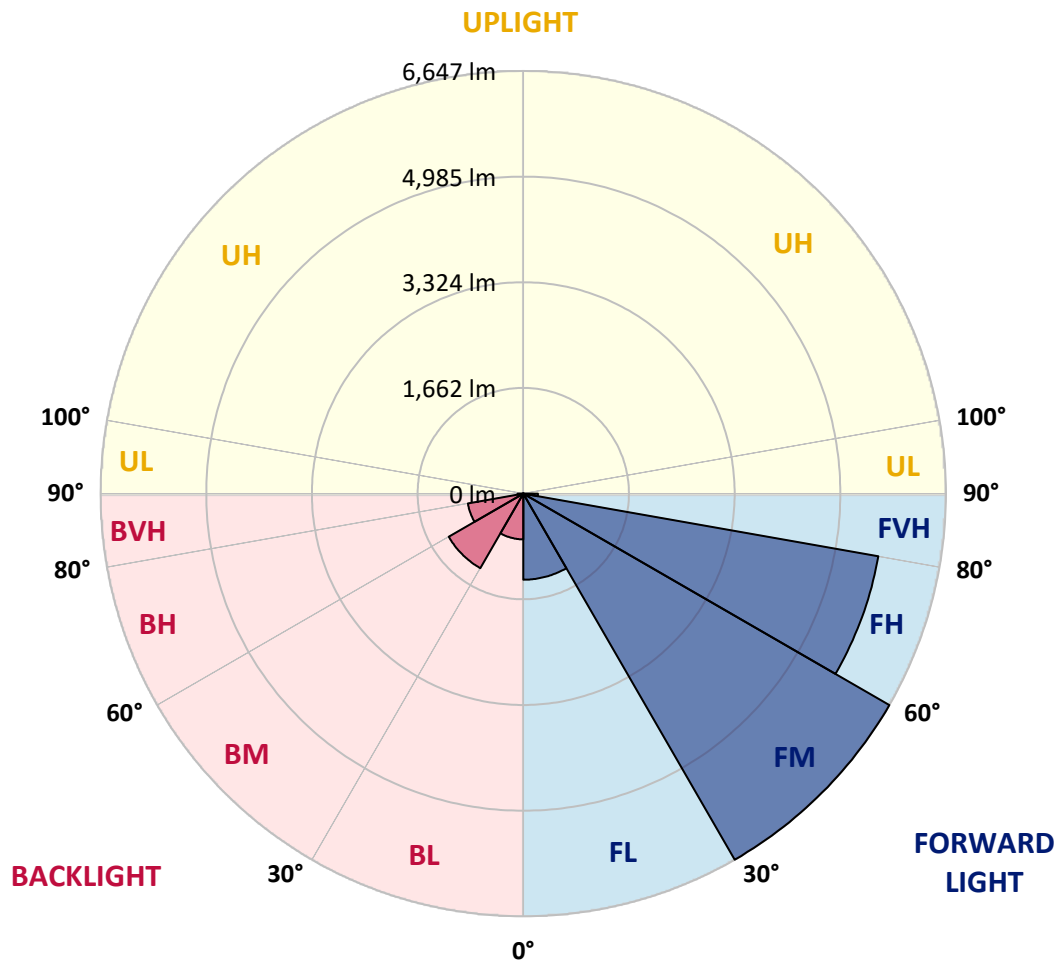
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1354.2	8.0			
FM	(30°-60°)	6647.1	39.2			
FH	(60°-80°)	5669.4	33.4			G3/7500
FVH	(80°-90°)	230.1	1.4			G3/500
BL	(0°-30°)	719.1	4.2	B2/1000		
BM	(30°-60°)	1353.8	8.0	B2/2500		
BH	(60°-80°)	885.6	5.2	B2/1000		G2/1000
BVH	(80°-90°)	89.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2
2.5°	2309.3	2298.1	2299.1	2283.2	2262.7	2240.4	2208.7	2180.8	2158.4	2145.4	2107.2
5°	2559.0	2547.8	2533.8	2499.4	2484.4	2429.5	2359.6	2296.3	2247.8	2220.8	2144.4
7.5°	2761.1	2758.3	2754.6	2735.0	2696.8	2620.5	2560.8	2450.9	2379.2	2327.9	2197.5
10°	2885.9	2890.6	2893.4	2897.1	2881.3	2841.2	2759.3	2620.5	2529.2	2464.0	2266.5
12.5°	2949.3	2954.0	2969.8	3004.3	3025.7	3021.0	2954.0	2817.9	2692.2	2606.5	2340.1
15°	2988.4	2995.9	3023.8	3069.5	3141.2	3186.8	3154.2	3028.5	2890.6	2789.1	2427.6
17.5°	3031.3	3039.7	3070.4	3135.6	3229.7	3328.4	3363.8	3255.8	3105.8	2984.7	2525.4
20°	3055.5	3066.7	3110.5	3196.2	3306.1	3449.5	3566.9	3510.1	3346.1	3212.0	2638.2
22.5°	3094.6	3103.9	3141.2	3232.5	3363.8	3543.6	3770.0	3757.9	3613.5	3440.2	2762.1
25°	3200.8	3215.7	3234.3	3289.3	3416.0	3639.6	3938.6	4022.4	3872.5	3678.7	2875.7
27.5°	3401.1	3413.2	3412.3	3419.7	3491.5	3722.5	4084.9	4284.2	4129.6	3920.0	2985.6
30°	3629.3	3634.0	3637.7	3620.9	3636.8	3807.3	4219.0	4543.2	4388.5	4167.8	3081.6
32.5°	3906.9	3916.2	3884.6	3841.7	3828.7	3933.0	4329.9	4802.2	4695.0	4419.3	3176.6
35°	4234.8	4259.1	4194.8	4119.3	4066.2	4113.7	4478.9	5066.7	5009.0	4740.7	3302.4
37.5°	4609.3	4639.1	4579.5	4431.4	4355.9	4369.0	4673.6	5393.7	5405.8	5106.8	3489.6
40°	4915.8	4954.9	4956.8	4747.2	4632.6	4647.5	4920.5	5745.8	5884.6	5559.5	3710.4
42.5°	5117.9	5156.1	5196.2	5073.2	4953.1	5037.8	5208.3	6127.7	6423.1	6109.1	4018.7
45°	5339.7	5374.1	5396.5	5340.6	5273.5	5493.4	5555.8	6533.9	6996.9	6723.0	4355.9
47.5°	5596.8	5635.0	5656.4	5603.3	5578.1	5893.0	5930.3	6913.0	7609.8	7319.2	4728.6
50°	5939.6	5968.5	5957.3	5923.7	5918.1	6199.5	6289.8	7268.0	8115.7	7961.0	5115.2
52.5°	6366.2	6400.7	6412.8	6365.3	6343.9	6418.4	6579.6	7591.2	8575.9	8512.5	5527.8
55°	6624.3	6679.2	6863.7	6938.2	6989.4	6701.6	6891.6	7948.0	8988.5	9093.8	5971.2
57.5°	6293.6	6364.4	6777.0	7149.7	7631.3	7409.6	7334.1	8320.6	9401.2	9657.4	6502.2
60°	5486.8	5502.7	6034.6	6721.1	7690.0	8319.7	8257.3	8913.1	9848.4	10225.6	7201.8
62.5°	3806.3	3839.9	4468.7	5564.2	6965.2	8647.6	9827.9	9935.9	10489.3	11076.2	8227.5
65°	1962.8	1919.0	2491.9	3497.0	5251.2	7868.8	11100.4	11816.7	11879.2	12406.4	9671.4
67.5°	1208.2	1227.8	1496.1	2042.0	3104.9	5718.8	10967.2	14114.9	13786.0	14039.4	11011.9
70°	907.3	931.6	1116.0	1397.3	1892.9	3269.7	8819.9	14671.9	15131.2	15066.0	11419.9
71°	789.0	814.2	1006.1	1271.6	1590.2	2523.6	7431.0	14088.8	15177.8	15166.6	11266.2
72.5°	672.6	688.4	838.4	1076.9	1340.5	1769.0	5582.8	12635.6	14530.3	14902.0	10717.5
75°	528.2	540.3	607.4	821.6	1055.4	1086.2	2995.9	9473.0	11934.1	12642.1	8922.4
77.5°	430.4	438.8	473.2	610.2	814.2	769.5	1571.5	6165.9	7476.6	8189.3	5255.8
80°	341.9	351.2	371.7	413.6	610.2	548.7	749.9	3124.4	3611.6	3604.2	2097.9
82.5°	265.5	268.3	292.5	303.7	417.3	389.4	406.2	1322.8	1465.3	1513.8	757.4
85°	167.7	176.1	259.0	232.9	249.7	228.2	200.3	525.4	647.4	638.1	302.8
87.5°	51.2	54.0	87.6	98.7	110.9	99.7	73.6	154.6	189.1	204.9	75.5
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°	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2
2.5°	2092.3	2082.0	2045.7	2015.9	1987.9	1957.2	1931.1	1923.7	1917.1	1914.3	1913.4
5°	2111.8	2081.1	2009.4	1950.7	1904.1	1861.2	1834.2	1822.1	1810.0	1810.0	1813.7
7.5°	2139.8	2083.9	1973.0	1885.5	1826.8	1786.7	1767.2	1765.3	1768.1	1770.9	1771.8
10°	2170.5	2082.0	1919.9	1810.9	1758.8	1740.1	1741.1	1756.9	1771.8	1783.0	1784.9
12.5°	2200.3	2070.8	1857.5	1741.1	1707.5	1711.3	1737.3	1772.7	1801.6	1817.5	1818.4
15°	2233.9	2053.1	1782.1	1674.9	1663.8	1692.6	1741.1	1795.1	1838.9	1865.0	1867.8
17.5°	2261.8	2023.3	1702.9	1610.7	1624.6	1677.7	1744.8	1814.7	1867.8	1900.4	1906.0
20°	2293.5	1985.1	1620.9	1549.2	1589.2	1661.0	1737.3	1812.8	1867.8	1899.4	1906.9
22.5°	2318.6	1931.1	1542.6	1498.9	1557.6	1640.5	1712.2	1772.7	1817.5	1834.2	1845.4
25°	2328.9	1863.1	1469.1	1457.9	1532.4	1606.9	1655.4	1689.8	1703.8	1701.9	1706.6
27.5°	2323.3	1784.9	1405.7	1425.3	1500.7	1554.8	1579.0	1576.2	1551.0	1527.7	1538.9
30°	2300.0	1691.7	1352.6	1391.7	1459.7	1489.6	1485.8	1449.5	1402.0	1358.2	1361.0
32.5°	2258.1	1591.1	1303.2	1353.5	1402.0	1415.0	1389.9	1342.4	1274.4	1217.5	1209.2
35°	2222.7	1495.1	1259.5	1309.8	1344.2	1337.7	1313.5	1252.0	1190.5	1140.2	1131.8
37.5°	2217.1	1413.2	1217.5	1260.4	1280.0	1270.6	1240.8	1188.7	1166.3	1128.1	1123.5
40°	2246.9	1355.4	1174.7	1208.2	1217.5	1210.1	1177.5	1147.7	1168.2	1158.9	1158.9
42.5°	2327.9	1324.7	1136.5	1156.1	1163.5	1169.1	1145.8	1120.7	1145.8	1103.0	1089.0
45°	2456.5	1325.6	1102.0	1104.8	1127.2	1146.7	1130.9	1093.6	1080.6	994.9	978.1
47.5°	2645.6	1357.3	1074.1	1056.4	1096.4	1129.0	1106.7	1052.7	994.9	938.1	927.8
50°	2866.4	1414.1	1048.9	1006.1	1055.4	1106.7	1089.9	1026.6	967.0	932.5	926.0
52.5°	3111.4	1485.8	1018.2	950.2	1005.1	1096.4	1093.6	1022.8	940.9	917.6	912.0
55°	3414.1	1556.6	980.0	885.0	960.4	1088.1	1083.4	992.1	935.3	918.5	916.6
57.5°	3766.3	1659.1	925.0	818.8	909.2	1053.6	1043.3	973.5	916.6	904.5	903.6
60°	4333.6	1818.4	846.8	758.3	857.0	993.0	1006.1	941.8	886.8	884.0	883.1
62.5°	5079.8	2042.0	765.7	695.9	796.5	914.8	952.0	898.9	855.2	869.1	871.0
65°	6110.0	2230.1	681.9	642.8	729.4	839.3	900.8	858.9	819.8	846.8	846.8
67.5°	6781.7	2233.9	605.5	587.8	661.4	776.0	846.8	811.4	774.1	819.8	821.6
70°	6642.0	1957.2	542.2	530.1	595.3	708.0	787.2	759.2	716.4	757.4	742.4
71°	6416.5	1803.5	517.0	507.7	569.2	675.4	759.2	735.9	693.1	720.1	711.7
72.5°	6057.0	1565.9	476.0	477.9	530.1	634.4	720.1	695.9	653.0	667.9	665.1
75°	5119.8	1367.5	407.1	415.5	455.5	564.5	641.8	623.2	579.4	579.4	576.6
77.5°	3200.8	955.8	338.2	342.8	386.6	483.5	551.5	535.6	493.7	479.7	476.0
80°	1194.2	493.7	264.6	270.2	297.2	381.0	456.5	441.6	398.7	382.9	368.0
82.5°	451.8	247.8	194.7	190.0	218.9	290.6	357.7	340.0	306.5	268.3	257.1
85°	170.5	123.0	119.2	115.5	128.6	172.3	221.7	218.0	182.6	155.6	152.8
87.5°	44.7	40.1	46.6	34.5	36.3	32.6	33.5	14.0	6.5	2.8	1.9
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)