

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: P458939

Luminaire Tested: **GALN-SA4C-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458939
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-SA4C-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26404 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

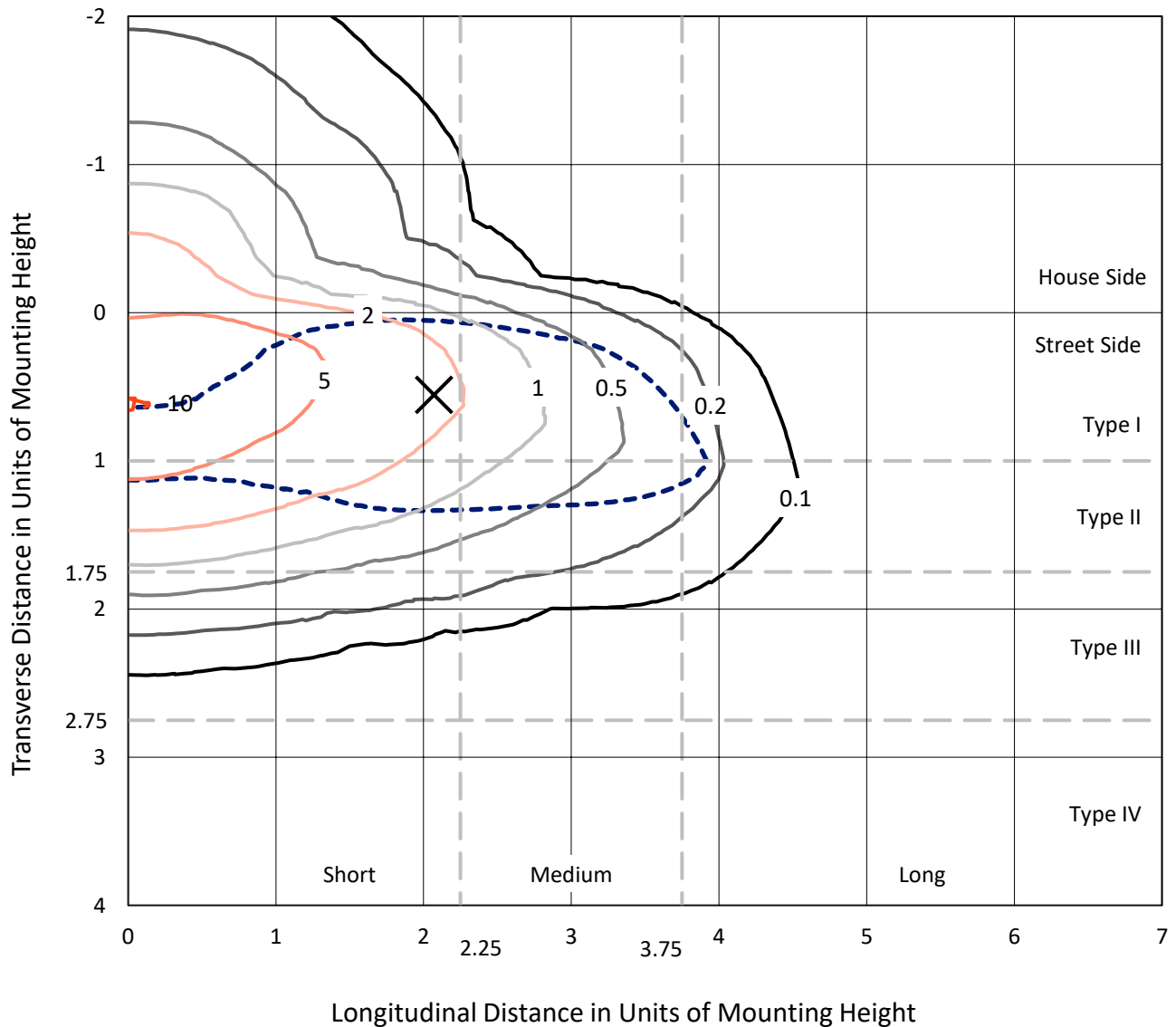
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

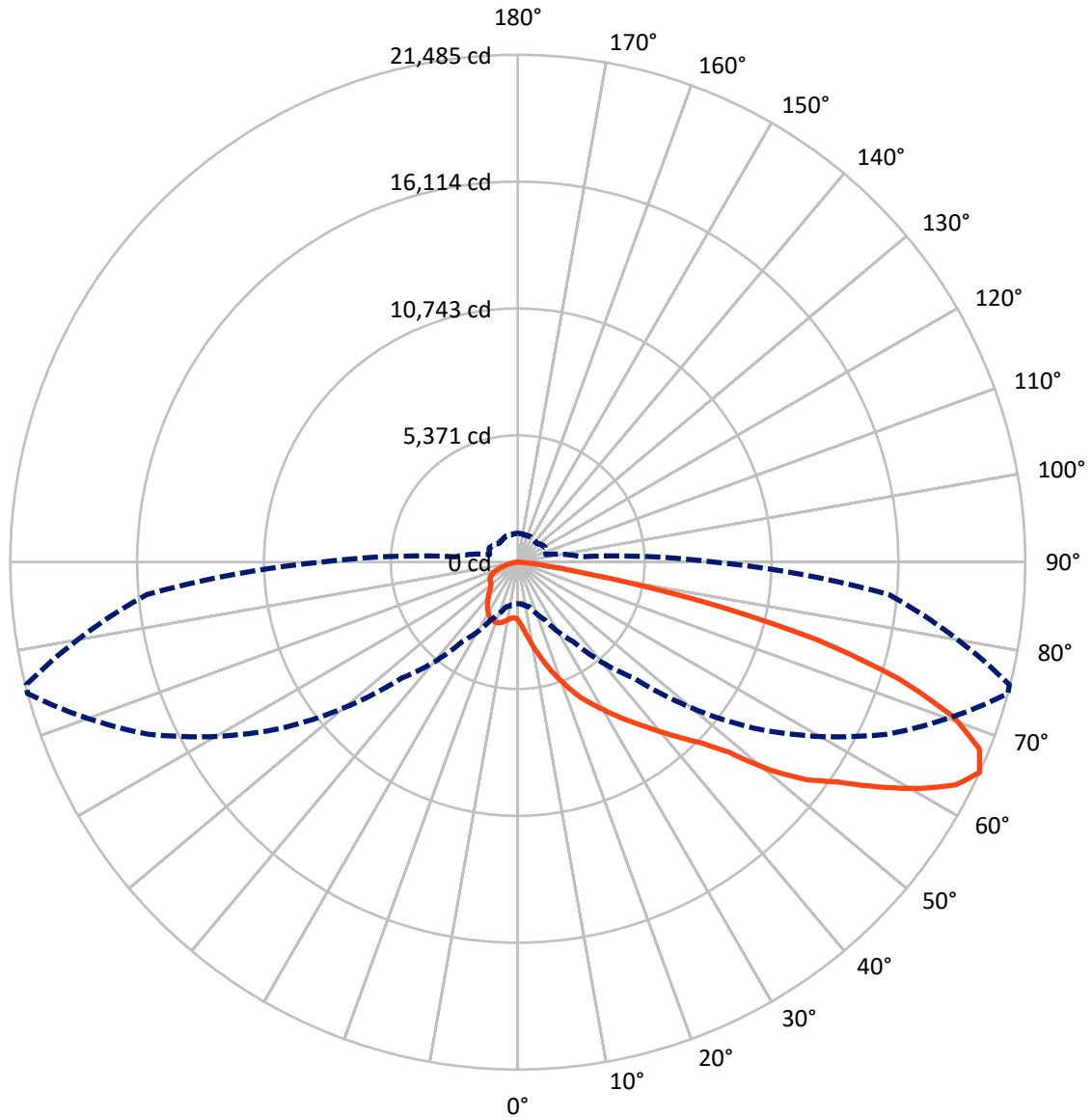
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4438.8	0.0	4438.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	21965.1	0.0	21965.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	26404.0	0.0	26404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.1	1.1
10°-20°	1167.5	4.4
20°-30°	2255.2	8.5
30°-40°	3663.1	13.9
40°-50°	5038.9	19.1
50°-60°	5949.2	22.5
60°-70°	5212.5	19.7
70°-80°	2488.5	9.4
80°-90°	331.1	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°	26404.0	100.0
0°-180°	26404.0	100.0

Coefficient of Utilization



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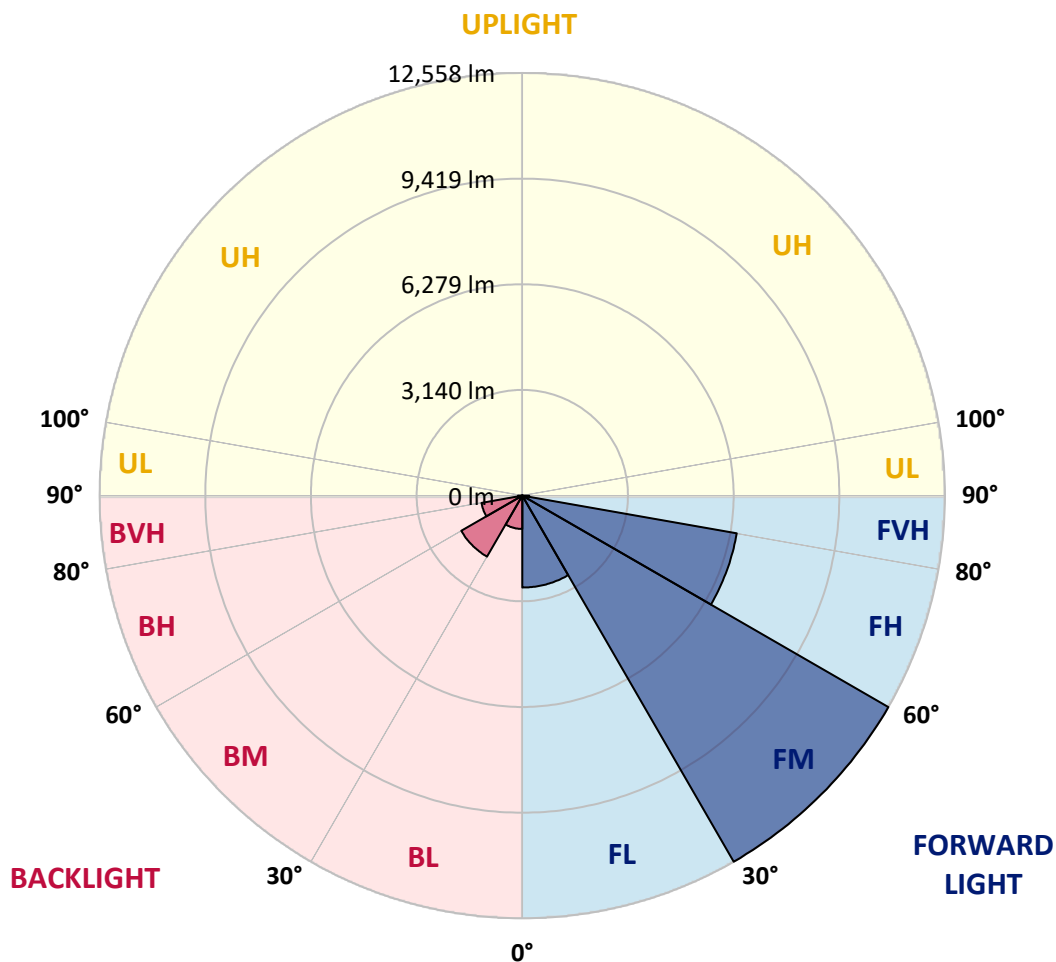
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2729.7	10.3			
FM	(30°-60°)	12558.3	47.6			
FH	(60°-80°)	6470.2	24.5			G3/7500
FVH	(80°-90°)	206.9	0.8			G2/225
BL	(0°-30°)	991.0	3.8	B2/1000		
BM	(30°-60°)	2092.9	7.9	B2/2500		
BH	(60°-80°)	1230.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	124.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3
2.5°	3259.6	3238.1	3215.2	3152.2	3084.8	3008.9	2900.1	2795.5	2656.6	2652.3	2549.2
5°	4163.2	4148.9	4047.2	3988.5	3832.4	3624.8	3448.6	3175.1	2921.6	2891.5	2691.0
7.5°	4993.9	4938.0	4899.4	4793.4	4638.7	4372.3	4031.5	3662.0	3238.1	3198.0	2865.7
10°	5619.7	5614.0	5594.0	5502.3	5386.3	5121.4	4743.3	4213.4	3639.1	3560.3	3077.7
12.5°	6088.1	6092.3	6089.5	6088.1	6005.0	5780.1	5370.5	4812.0	4044.4	3988.5	3322.6
15°	6396.0	6438.9	6456.1	6527.7	6534.9	6384.5	6032.2	5390.6	4501.2	4418.2	3586.1
17.5°	6599.3	6620.8	6701.0	6822.7	6921.6	6894.3	6580.7	5926.2	4968.1	4829.2	3859.6
20°	6794.1	6831.3	6892.9	7059.0	7233.8	7314.0	7093.4	6474.7	5430.7	5341.9	4161.8
22.5°	7199.4	7252.4	7273.9	7358.4	7507.3	7649.1	7548.8	7000.3	5937.7	5817.4	4482.6
25°	7885.4	7941.2	7881.1	7861.0	7909.7	7979.9	7958.4	7495.8	6416.0	6244.2	4786.2
27.5°	8779.1	8786.2	8668.8	8557.1	8436.8	8401.0	8335.1	7935.5	6831.3	6688.1	5091.3
30°	9738.6	9704.2	9509.4	9307.5	9104.1	8903.6	8714.6	8359.4	7293.9	7129.2	5390.6
32.5°	10629.4	10610.8	10394.5	10080.9	9737.2	9548.1	9165.7	8787.6	7789.4	7630.5	5698.5
35°	11296.8	11324.0	11086.2	10744.0	10368.7	10201.2	9718.5	9237.3	8302.1	8128.9	6033.6
37.5°	11770.8	11756.5	11546.0	11249.5	10920.1	10774.0	10364.4	9728.6	8853.5	8687.4	6400.3
40°	11939.8	11931.2	11775.1	11558.8	11349.8	11298.2	11040.4	10258.5	9485.1	9290.3	6841.4
42.5°	11832.4	11851.0	11747.9	11689.2	11650.5	11687.7	11712.1	10953.0	10174.0	9994.9	7319.7
45°	11503.0	11493.0	11478.6	11574.6	11792.3	12037.2	12376.6	11609.0	10923.0	10779.8	7961.3
47.5°	10914.4	10986.0	11021.8	11286.7	11762.2	12342.2	13141.4	12488.3	12010.0	11885.4	8939.5
50°	10090.9	10148.2	10360.1	10831.3	11540.2	12456.8	13888.9	13926.2	13823.1	13589.6	10002.1
52.5°	8804.8	8893.6	9330.4	10194.0	11084.8	12409.5	14341.5	15159.3	15295.3	15120.6	11049.0
55°	7365.5	7490.1	7951.3	9084.1	10457.5	12151.8	14653.7	15873.9	16416.7	16254.9	12057.2
57.5°	5956.3	6088.1	6562.1	7659.1	9363.4	11581.8	14858.5	16670.2	17943.3	17732.8	13311.8
60°	4464.0	4601.5	5008.2	6138.2	7805.2	10467.6	14719.6	17360.5	19468.6	19378.4	14567.8
62.5°	2880.0	3031.9	3385.6	4320.8	5999.3	8945.2	13976.3	17741.4	20789.0	20680.2	15484.4
65°	1754.4	1771.6	1966.3	2682.4	4106.0	6925.9	12276.4	17235.9	21485.0	21452.1	15763.6
67.5°	1134.3	1161.5	1250.3	1606.9	2461.9	4810.6	9815.9	15567.4	21078.3	21066.9	15186.5
70°	958.1	966.7	1006.8	1084.1	1430.7	2917.3	6892.9	12907.9	19533.0	19533.0	13798.7
72.5°	856.4	867.9	882.2	906.5	1021.1	1652.7	4113.1	10047.9	16864.9	16976.7	11745.0
75°	777.7	774.8	783.4	787.7	870.7	1079.8	2126.7	7431.4	13046.8	12823.4	8505.5
77.5°	665.9	670.2	665.9	684.6	769.1	822.1	1079.8	4986.7	7906.9	7617.6	4269.2
80°	547.1	554.2	561.4	572.9	657.4	624.4	648.8	2272.8	2924.4	2862.9	1319.0
82.5°	411.0	421.1	432.5	459.7	517.0	412.5	409.6	971.0	1055.5	966.7	485.5
85°	166.1	196.2	296.5	323.7	325.1	226.3	252.1	405.3	431.1	421.1	190.5
87.5°	38.7	45.8	96.0	144.6	133.2	84.5	93.1	131.8	150.4	138.9	64.4
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°	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3	2453.3
2.5°	2502.0	2451.8	2365.9	2300.0	2252.8	2211.2	2185.5	2169.7	2164.0	2162.5	2164.0
5°	2586.5	2497.7	2361.6	2275.7	2228.4	2201.2	2185.5	2184.0	2185.5	2186.9	2182.6
7.5°	2702.5	2575.0	2397.4	2317.2	2281.4	2261.4	2254.2	2251.3	2252.8	2251.3	2251.3
10°	2857.1	2682.4	2467.6	2384.5	2354.4	2331.5	2320.1	2312.9	2307.2	2301.5	2298.6
12.5°	3027.6	2801.3	2543.5	2463.3	2420.3	2384.5	2358.7	2340.1	2327.2	2314.3	2311.5
15°	3218.0	2927.3	2628.0	2516.3	2454.7	2401.7	2357.3	2327.2	2304.3	2285.7	2284.3
17.5°	3399.9	3046.2	2685.3	2540.6	2450.4	2375.9	2317.2	2275.7	2247.0	2222.7	2219.8
20°	3594.7	3159.3	2711.1	2524.9	2407.4	2317.2	2239.9	2189.8	2156.8	2129.6	2125.3
22.5°	3790.9	3255.3	2708.2	2474.7	2333.0	2227.0	2145.4	2092.4	2053.7	2026.5	2016.5
25°	3978.5	3332.6	2672.4	2394.5	2229.9	2119.6	2036.5	1987.8	1953.4	1920.5	1920.5
27.5°	4147.5	3378.4	2605.1	2297.2	2123.9	2007.9	1942.0	1897.6	1866.1	1844.6	1831.7
30°	4313.6	3399.9	2513.4	2174.0	2012.2	1913.3	1860.4	1834.6	1805.9	1781.6	1778.7
32.5°	4462.6	3395.6	2398.8	2053.7	1906.2	1836.0	1814.5	1794.5	1764.4	1730.0	1721.4
35°	4607.2	3367.0	2262.8	1921.9	1817.4	1790.2	1795.9	1767.3	1712.8	1669.9	1662.7
37.5°	4764.7	3315.4	2113.8	1814.5	1742.9	1768.7	1783.0	1720.0	1631.2	1563.9	1548.1
40°	4946.6	3256.7	1959.2	1707.1	1684.2	1748.6	1748.6	1632.6	1510.9	1469.4	1457.9
42.5°	5160.0	3208.0	1830.3	1616.9	1635.5	1700.0	1692.8	1516.6	1466.5	1445.0	1439.3
45°	5498.0	3190.8	1697.1	1538.1	1595.4	1642.7	1584.0	1476.5	1447.9	1430.7	1425.0
47.5°	6032.2	3210.9	1579.7	1479.4	1549.6	1585.4	1462.2	1449.3	1429.3	1404.9	1402.1
50°	6527.7	3192.3	1496.6	1446.5	1509.5	1516.6	1412.1	1416.4	1404.9	1377.7	1372.0
52.5°	6933.0	3133.5	1443.6	1429.3	1475.1	1396.3	1364.8	1380.6	1376.3	1341.9	1336.2
55°	7378.4	3097.7	1417.8	1429.3	1452.2	1291.8	1320.4	1343.4	1337.6	1313.3	1311.8
57.5°	7918.3	3104.9	1399.2	1433.6	1429.3	1238.8	1276.0	1303.3	1301.8	1294.7	1294.7
60°	8471.1	3107.8	1370.6	1432.1	1402.1	1197.3	1230.2	1268.9	1271.7	1276.0	1276.0
62.5°	8654.5	2983.2	1314.7	1406.4	1341.9	1157.2	1187.2	1240.2	1237.4	1248.8	1250.3
65°	8312.2	2638.0	1231.6	1347.6	1264.6	1128.5	1154.3	1203.0	1187.2	1217.3	1223.1
67.5°	7566.0	2182.6	1102.8	1241.7	1178.7	1098.5	1132.8	1151.4	1122.8	1181.5	1183.0
70°	6539.2	1704.3	939.5	1091.3	1081.3	1066.9	1115.6	1087.0	1046.9	1118.5	1104.2
72.5°	5467.9	1301.8	750.4	892.2	950.9	1019.7	1085.6	1003.9	948.1	969.6	943.8
75°	4107.4	962.4	602.9	698.9	792.0	952.4	1058.4	903.7	817.8	797.7	792.0
77.5°	2093.8	628.7	451.1	522.7	594.3	860.7	1021.1	786.2	677.4	645.9	631.6
80°	747.6	391.0	317.9	360.9	401.0	740.4	892.2	650.2	525.6	519.9	525.6
82.5°	346.6	252.1	213.4	236.3	237.7	494.1	680.3	485.5	399.6	607.2	512.7
85°	148.9	126.0	120.3	117.4	108.8	220.6	382.4	260.7	406.7	181.9	167.6
87.5°	44.4	50.1	44.4	32.9	24.3	24.3	38.7	14.3	10.0	7.2	7.2
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)