

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: P453630

Luminaire Tested: **GALN-SA4C-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453630
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-SA4C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22226 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
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

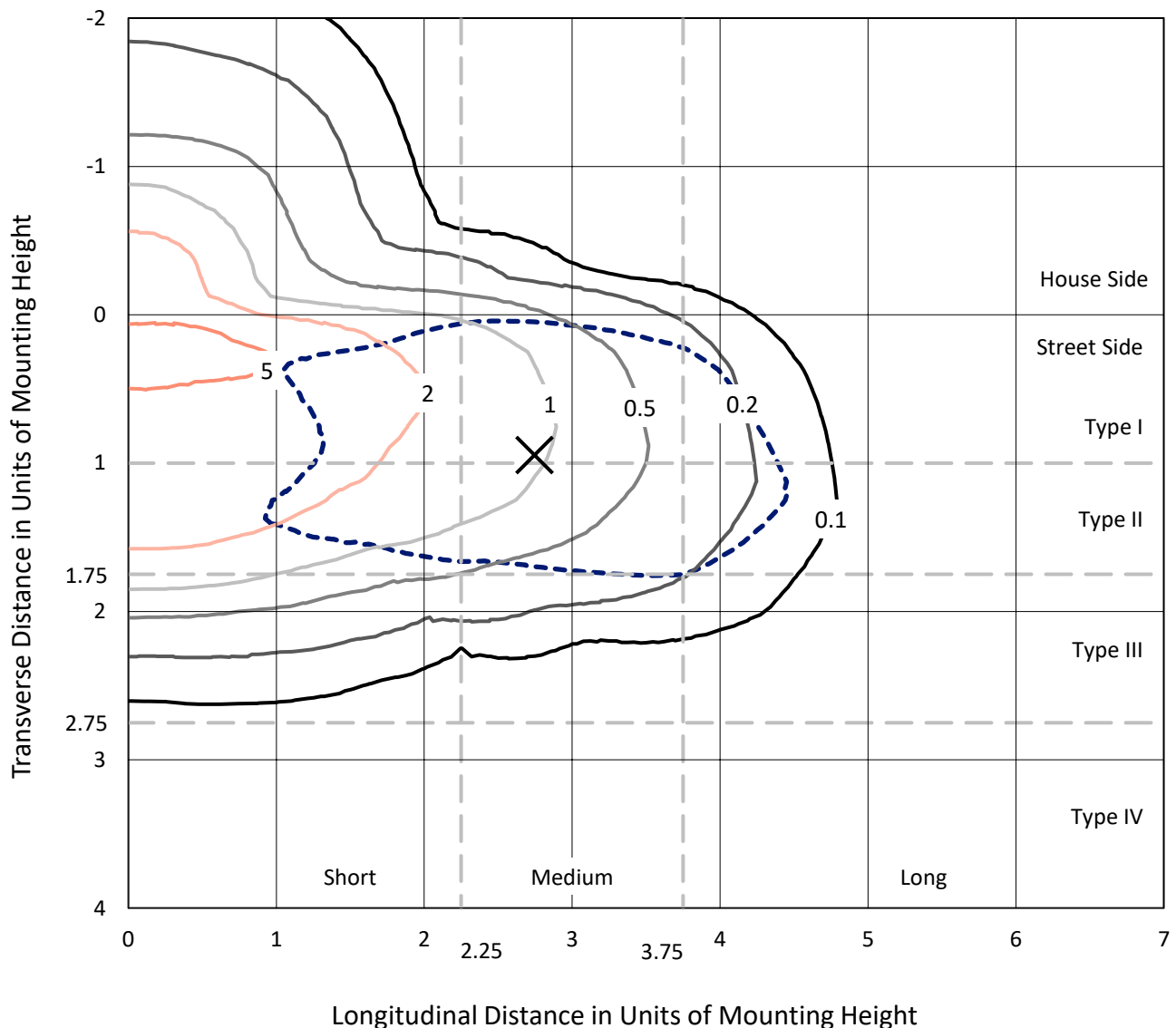


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

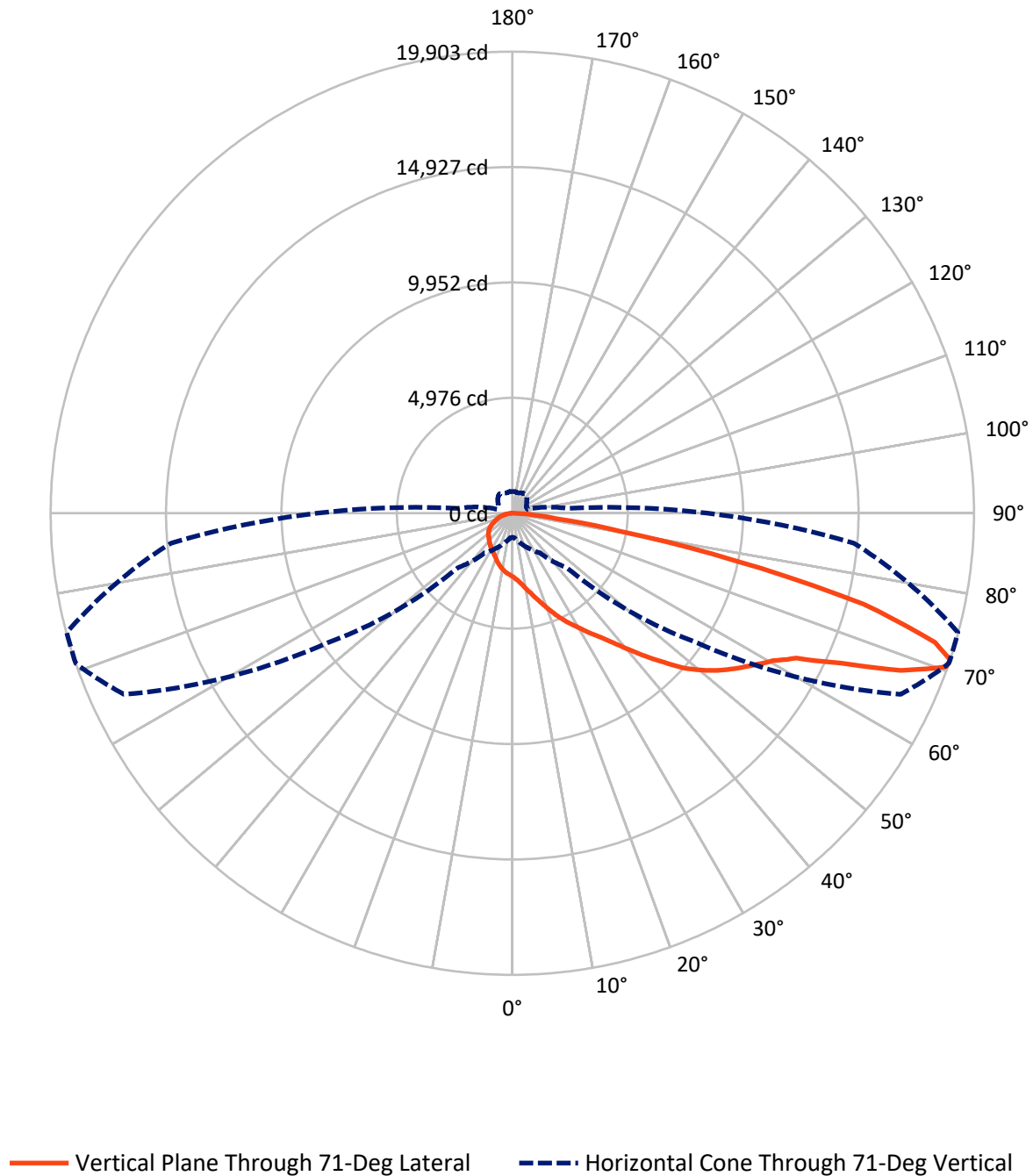


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3997.3	0.0	3997.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	18228.7	0.0	18228.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	22226.0	0.0	22226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	1.2
10°-20°	889.8	4.0
20°-30°	1555.1	7.0
30°-40°	2313.0	10.4
40°-50°	3407.9	15.3
50°-60°	4771.1	21.5
60°-70°	5336.3	24.0
70°-80°	3259.6	14.7
80°-90°	419.3	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°	22226.0	100.0
0°-180°	22226.0	100.0

Coefficient of Utilization



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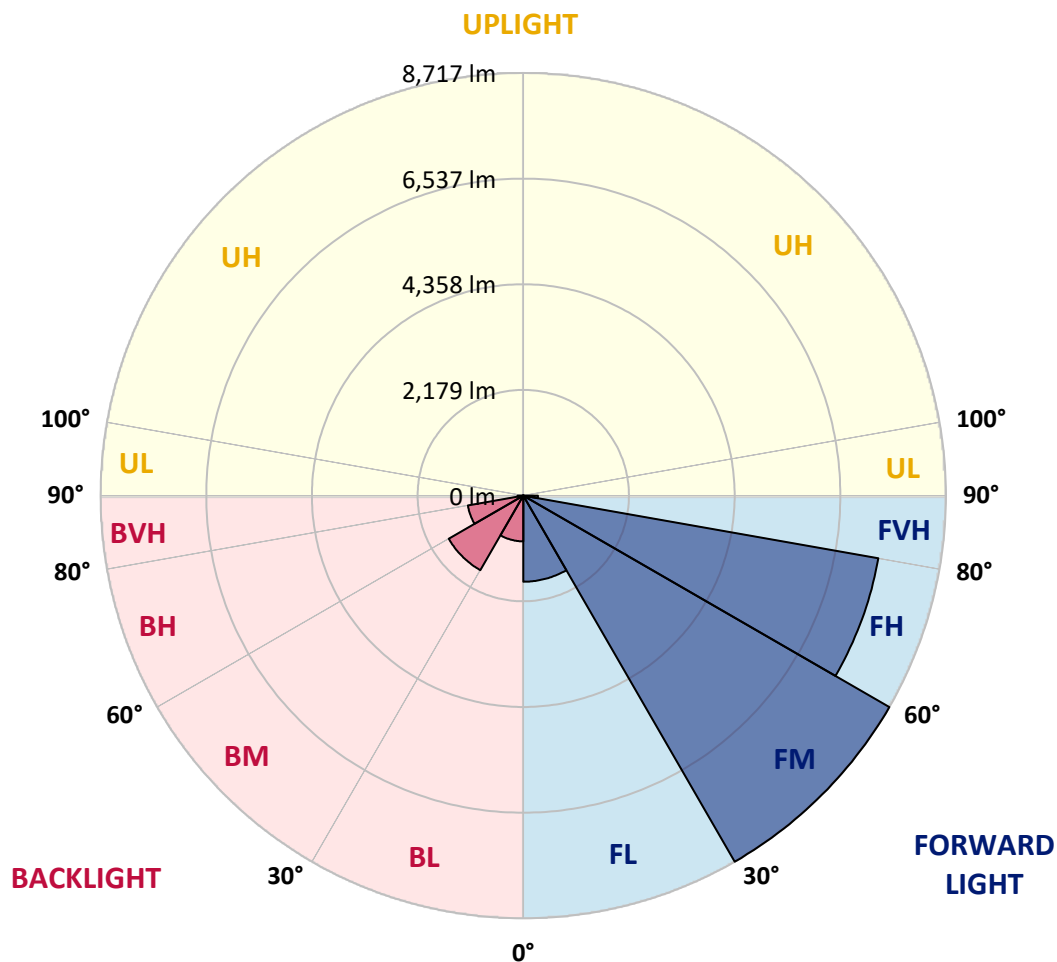
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1775.9	8.0			
FM	(30°-60°)	8716.6	39.2			
FH	(60°-80°)	7434.5	33.4			G3/7500
FVH	(80°-90°)	301.7	1.4			G3/500
BL	(0°-30°)	942.9	4.2	B2/1000		
BM	(30°-60°)	1775.4	8.0	B2/2500		
BH	(60°-80°)	1161.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	117.6	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8
2.5°	3028.3	3013.7	3014.9	2994.1	2967.2	2937.9	2896.4	2859.7	2830.4	2813.3	2763.2
5°	3355.7	3341.0	3322.7	3277.5	3258.0	3185.9	3094.3	3011.2	2947.7	2912.3	2812.1
7.5°	3620.8	3617.1	3612.2	3586.6	3536.5	3436.3	3358.1	3214.0	3119.9	3052.7	2881.7
10°	3784.5	3790.6	3794.2	3799.1	3778.4	3725.8	3618.3	3436.3	3316.6	3231.1	2972.1
12.5°	3867.5	3873.7	3894.4	3939.6	3967.7	3961.6	3873.7	3695.3	3530.4	3418.0	3068.6
15°	3918.9	3928.6	3965.3	4025.1	4119.2	4179.0	4136.3	3971.4	3790.6	3657.4	3183.5
17.5°	3975.0	3986.0	4026.3	4111.9	4235.2	4364.7	4411.1	4269.4	4072.8	3914.0	3311.7
20°	4006.8	4021.5	4078.9	4191.3	4335.4	4523.5	4677.5	4602.9	4387.9	4212.0	3459.5
22.5°	4058.1	4070.3	4119.2	4238.9	4411.1	4646.9	4943.8	4927.9	4738.5	4511.3	3622.0
25°	4197.4	4216.9	4241.3	4313.4	4479.6	4772.7	5164.9	5274.8	5078.1	4824.0	3771.0
27.5°	4460.0	4475.9	4474.7	4484.4	4578.5	4881.5	5356.7	5618.1	5415.3	5140.4	3915.2
30°	4759.3	4765.4	4770.3	4748.3	4769.1	4992.6	5532.6	5957.7	5754.9	5465.4	4041.0
32.5°	5123.3	5135.6	5094.0	5037.8	5020.7	5157.5	5677.9	6297.3	6156.8	5795.2	4165.6
35°	5553.3	5585.1	5500.8	5401.9	5332.2	5394.5	5873.4	6644.2	6568.5	6216.7	4330.5
37.5°	6044.4	6083.5	6005.3	5811.1	5712.1	5729.2	6128.7	7073.0	7088.9	6696.7	4576.1
40°	6446.3	6497.6	6500.1	6225.2	6075.0	6094.5	6452.4	7534.7	7716.8	7290.4	4865.6
42.5°	6711.4	6761.5	6814.0	6652.8	6495.2	6606.3	6829.9	8035.6	8422.8	8011.2	5269.9
45°	7002.1	7047.3	7076.7	7003.4	6915.4	7203.7	7285.5	8568.2	9175.3	8816.2	5712.1
47.5°	7339.3	7389.4	7417.5	7347.8	7314.9	7727.8	7776.6	9065.4	9979.1	9598.0	6200.8
50°	7788.8	7826.7	7812.0	7768.1	7760.7	8129.7	8248.2	9530.8	10642.5	10439.7	6707.7
52.5°	8348.3	8393.5	8409.4	8347.1	8319.0	8416.7	8628.1	9954.7	11245.9	11162.9	7248.9
55°	8686.7	8758.8	9000.7	9098.4	9165.6	8788.1	9037.3	10422.6	11787.1	11925.1	7830.4
57.5°	8253.0	8345.9	8887.0	9375.7	10007.2	9716.5	9617.6	10911.2	12328.3	12664.2	8526.7
60°	7195.1	7215.9	7913.4	8813.7	10084.2	10910.0	10828.1	11688.1	12914.6	13409.4	9444.1
62.5°	4991.4	5035.4	5860.0	7296.5	9133.8	11340.0	12887.7	13029.4	13755.1	14524.7	10789.1
65°	2573.9	2516.5	3267.7	4585.8	6886.1	10318.7	14556.4	15495.8	15577.7	16269.1	12682.5
67.5°	1584.4	1610.1	1961.9	2677.7	4071.5	7499.3	14381.7	18509.5	18078.3	18410.5	14440.4
70°	1189.8	1221.6	1463.5	1832.4	2482.3	4287.8	11566.0	19240.0	19842.2	19756.7	14975.4
71°	1034.7	1067.7	1319.3	1667.5	2085.2	3309.3	9744.6	18475.3	19903.3	19888.7	14773.9
72.5°	882.0	902.8	1099.4	1412.2	1757.9	2319.8	7321.0	16569.6	19054.3	19541.7	14054.4
75°	692.6	708.5	796.5	1077.4	1384.1	1424.4	3928.6	12422.3	15649.7	16578.2	11700.4
77.5°	564.4	575.4	620.6	800.1	1067.7	1009.0	2060.8	8085.7	9804.5	10739.0	6892.2
80°	448.3	460.5	487.4	542.4	800.1	719.5	983.4	4097.2	4736.1	4726.3	2751.0
82.5°	348.2	351.8	383.6	398.2	547.3	510.6	532.6	1734.7	1921.6	1985.1	993.1
85°	219.9	230.9	339.6	305.4	327.4	299.3	262.6	689.0	849.0	836.8	397.0
87.5°	67.2	70.9	114.8	129.5	145.4	130.7	96.5	202.8	248.0	268.7	98.9
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°	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8	2727.8
2.5°	2743.7	2730.2	2682.6	2643.5	2606.9	2566.6	2532.3	2522.6	2514.0	2510.4	2509.1
5°	2769.3	2729.0	2635.0	2558.0	2496.9	2440.7	2405.3	2389.4	2373.5	2373.5	2378.4
7.5°	2806.0	2732.7	2587.3	2472.5	2395.5	2343.0	2317.3	2314.9	2318.6	2322.2	2323.5
10°	2846.3	2730.2	2517.7	2374.8	2306.4	2281.9	2283.1	2303.9	2323.5	2338.1	2340.6
12.5°	2885.4	2715.6	2435.8	2283.1	2239.2	2244.1	2278.3	2324.7	2362.5	2383.3	2384.5
15°	2929.4	2692.4	2336.9	2196.4	2181.8	2219.6	2283.1	2354.0	2411.4	2445.6	2449.3
17.5°	2966.0	2653.3	2233.1	2112.1	2130.4	2200.1	2288.0	2379.7	2449.3	2492.0	2499.4
20°	3007.5	2603.2	2125.6	2031.5	2084.0	2178.1	2278.3	2377.2	2449.3	2490.8	2500.6
22.5°	3040.5	2532.3	2022.9	1965.5	2042.5	2151.2	2245.3	2324.7	2383.3	2405.3	2420.0
25°	3054.0	2443.2	1926.4	1911.8	2009.5	2107.2	2170.8	2216.0	2234.3	2231.8	2237.9
27.5°	3046.6	2340.6	1843.4	1869.0	1968.0	2038.8	2070.6	2066.9	2033.9	2003.4	2018.1
30°	3016.1	2218.4	1773.7	1825.1	1914.2	1953.3	1948.4	1900.8	1838.5	1781.1	1784.7
32.5°	2961.1	2086.5	1709.0	1775.0	1838.5	1855.6	1822.6	1760.3	1671.1	1596.6	1585.6
35°	2914.7	1960.6	1651.6	1717.6	1762.7	1754.2	1722.4	1641.8	1561.2	1495.2	1484.2
37.5°	2907.4	1853.1	1596.6	1652.8	1678.5	1666.2	1627.2	1558.7	1529.4	1479.3	1473.2
40°	2946.5	1777.4	1540.4	1584.4	1596.6	1586.8	1544.1	1505.0	1531.9	1519.7	1519.7
42.5°	3052.7	1737.1	1490.3	1516.0	1525.8	1533.1	1502.6	1469.6	1502.6	1446.4	1428.0
45°	3221.3	1738.3	1445.1	1448.8	1478.1	1503.8	1483.0	1434.1	1417.0	1304.7	1282.7
47.5°	3469.3	1779.9	1408.5	1385.3	1437.8	1480.6	1451.2	1380.4	1304.7	1230.1	1216.7
50°	3758.8	1854.4	1375.5	1319.3	1384.1	1451.2	1429.3	1346.2	1268.0	1222.8	1214.3
52.5°	4080.1	1948.4	1335.2	1246.0	1318.1	1437.8	1434.1	1341.3	1233.8	1203.3	1195.9
55°	4477.1	2041.3	1285.1	1160.5	1259.5	1426.8	1420.7	1301.0	1226.5	1204.5	1202.0
57.5°	4938.9	2175.6	1213.0	1073.8	1192.3	1381.6	1368.2	1276.6	1202.0	1186.2	1184.9
60°	5682.8	2384.5	1110.4	994.4	1123.9	1302.2	1319.3	1235.0	1163.0	1159.3	1158.1
62.5°	6661.3	2677.7	1004.1	912.5	1044.5	1199.6	1248.5	1178.8	1121.4	1139.7	1142.2
65°	8012.4	2924.5	894.2	842.9	956.5	1100.6	1181.3	1126.3	1075.0	1110.4	1110.4
67.5°	8893.2	2929.4	794.0	770.8	867.3	1017.6	1110.4	1064.0	1015.1	1075.0	1077.4
70°	8709.9	2566.6	711.0	695.1	780.6	928.4	1032.2	995.6	939.4	993.1	973.6
71°	8414.3	2365.0	678.0	665.8	746.4	885.7	995.6	965.1	908.9	944.3	933.3
72.5°	7942.8	2053.5	624.2	626.7	695.1	831.9	944.3	912.5	856.3	875.9	872.2
75°	6713.8	1793.3	533.8	544.8	597.4	740.3	841.7	817.2	759.8	759.8	756.2
77.5°	4197.4	1253.3	443.4	449.5	507.0	634.0	723.2	702.4	647.4	629.1	624.2
80°	1566.1	647.4	346.9	354.3	389.7	499.6	598.6	579.0	522.8	502.1	482.5
82.5°	592.5	324.9	255.3	249.2	287.1	381.1	469.1	445.9	401.9	351.8	337.2
85°	223.6	161.2	156.4	151.5	168.6	226.0	290.7	285.9	239.4	204.0	200.3
87.5°	58.6	52.5	61.1	45.2	47.6	42.8	44.0	18.3	8.6	3.7	2.4
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)