

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: P529490

Luminaire Tested: **GALN-SA4C-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17966 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

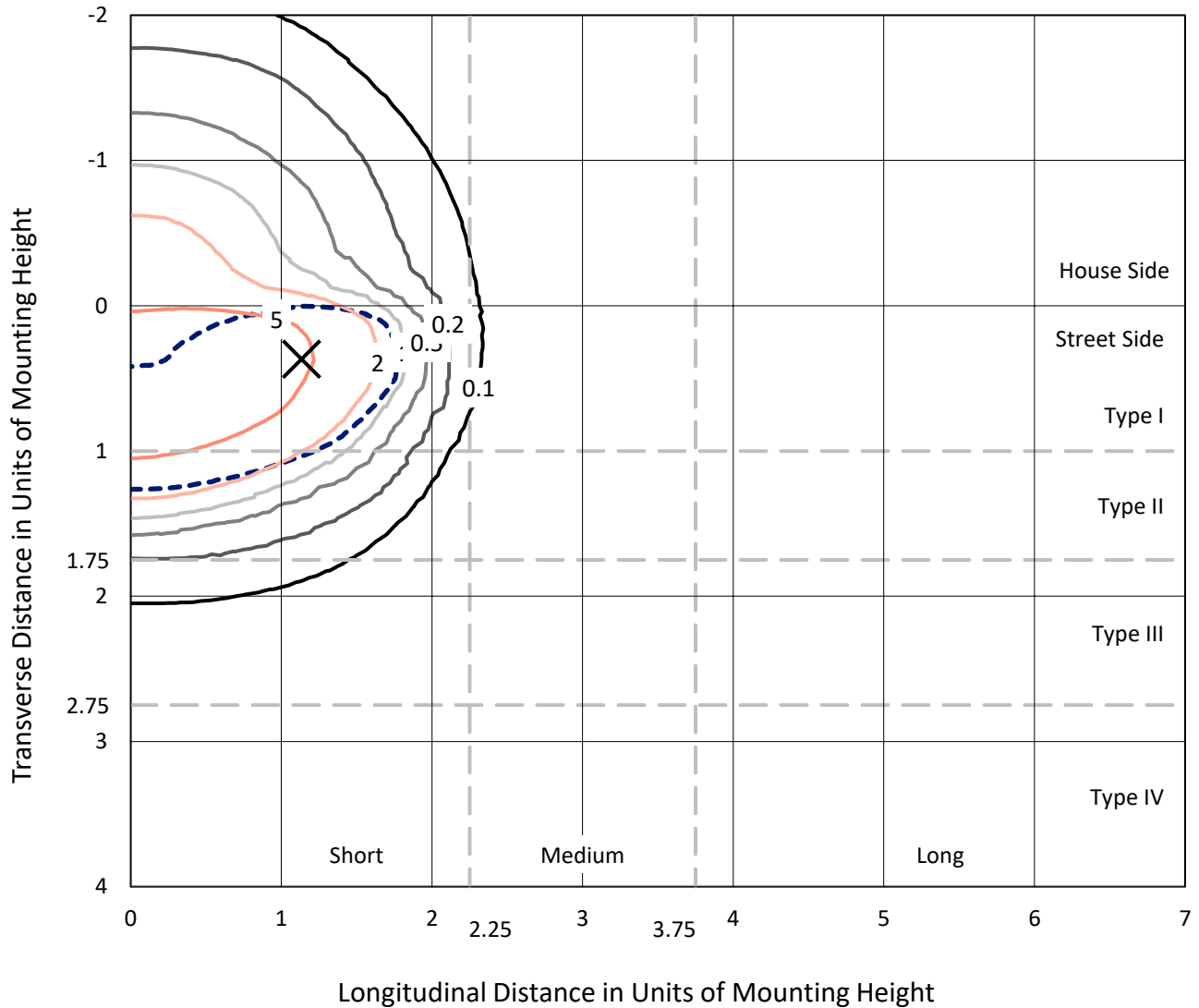
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

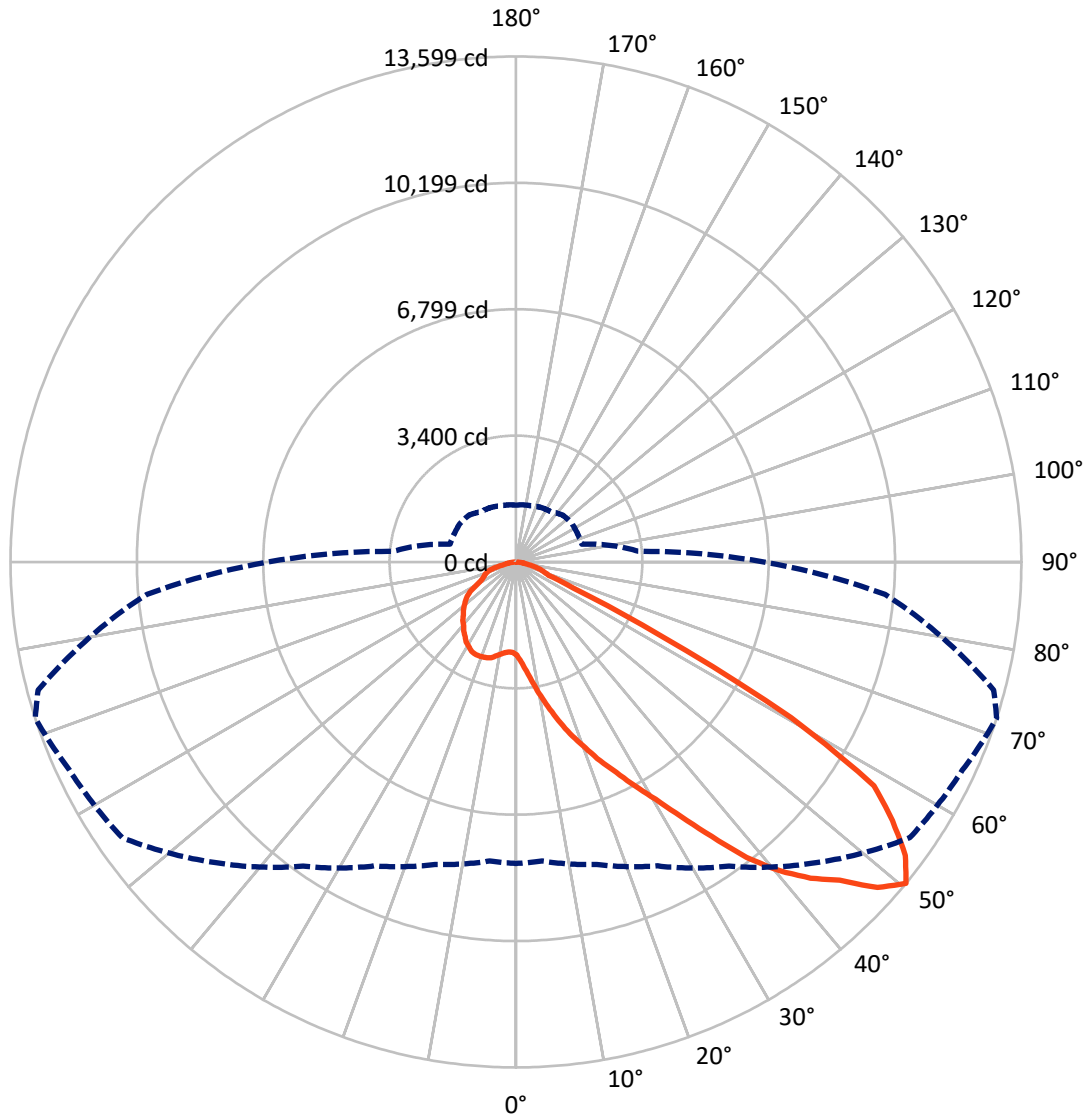
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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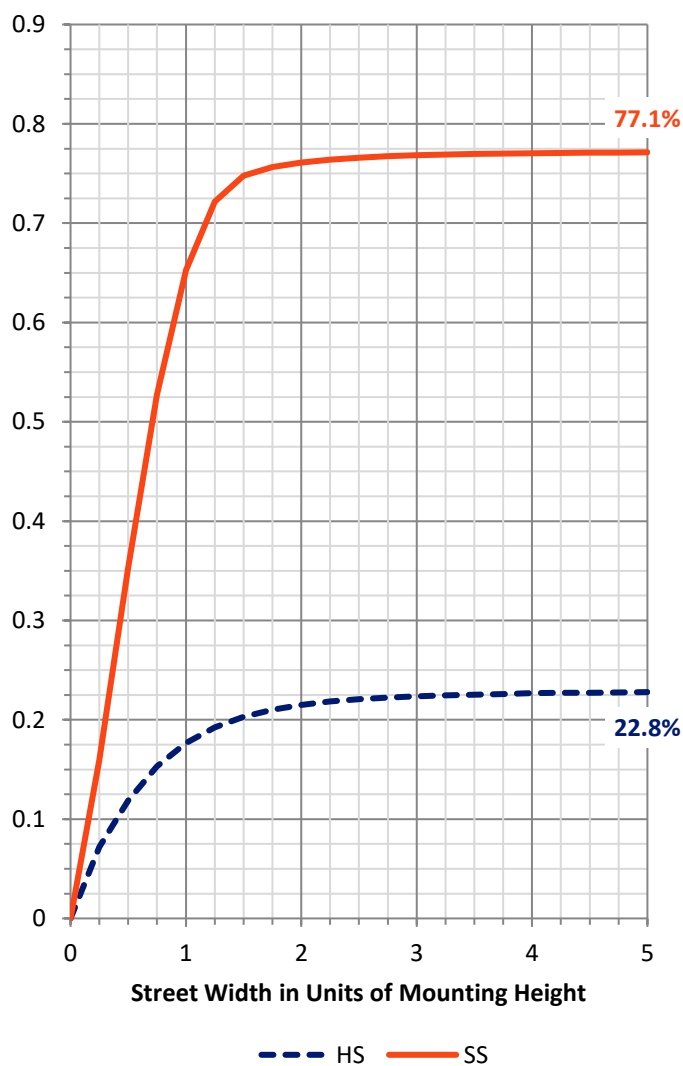
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4116.1	0.0	4116.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13849.9	0.0	13849.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	17966.0	0.0	17966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.2	1.6
10°-20°	1099.8	6.1
20°-30°	2132.4	11.9
30°-40°	3532.6	19.7
40°-50°	4942.8	27.5
50°-60°	4169.9	23.2
60°-70°	1271.0	7.1
70°-80°	445.9	2.5
80°-90°	77.5	0.4
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°	17966.0	100.0
0°-180°	17966.0	100.0

Coefficient of Utilization

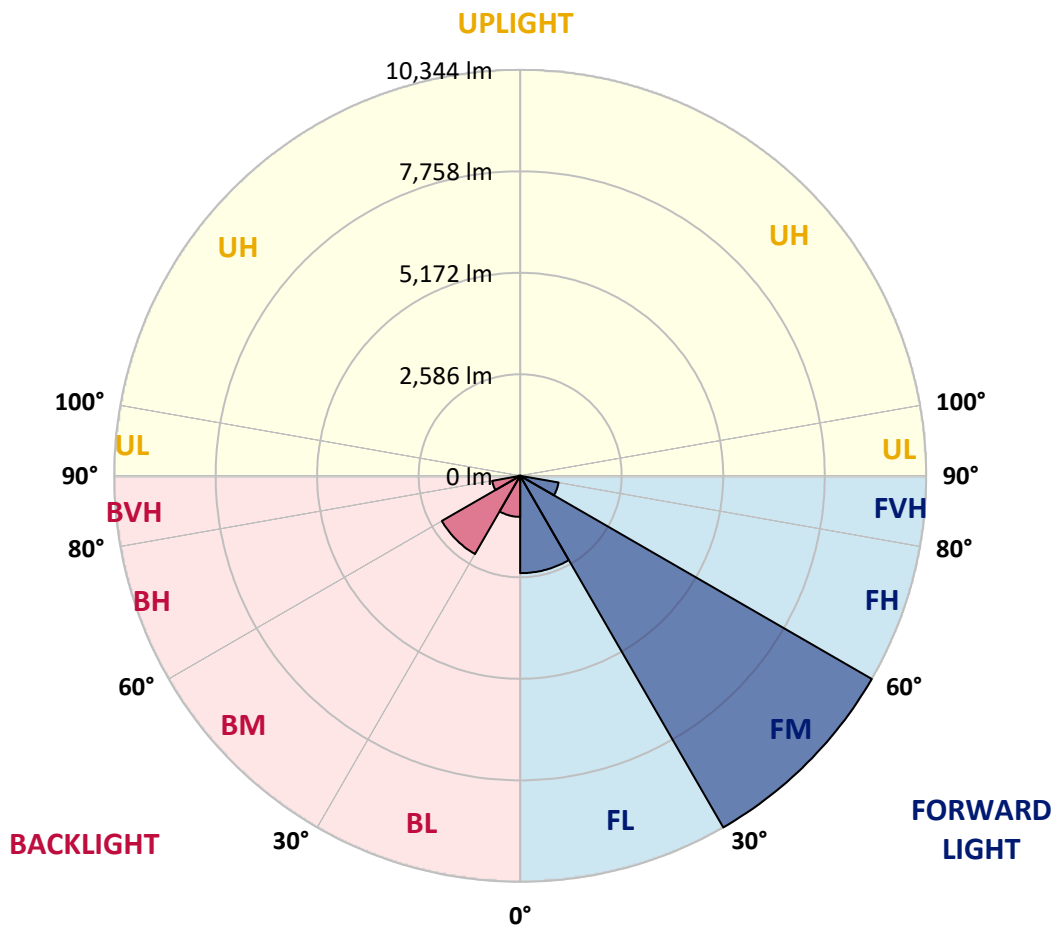


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2480.0	13.8			
FM (30°-60°)	10343.5	57.6			
FH (60°-80°)	991.7	5.5			G1/1800
FVH (80°-90°)	34.7	0.2			G1/100
BL (0°-30°)	1046.3	5.8	B3/2500		
BM (30°-60°)	2301.8	12.8	B2/2500		
BH (60°-80°)	725.2	4.0	B2/1000		G2/1000
BVH (80°-90°)	42.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2501.0	2501.0	2501.0	2501.0	2501.0	2501.0	2501.0	2501.0	2501.0	2501.0	2501.0
2.5°	3216.9	3196.9	3136.8	3116.8	3045.7	2916.7	2872.3	2741.1	2685.5	2634.4	2574.4
5°	4068.3	3975.0	3968.3	3854.9	3690.4	3594.8	3310.2	3119.1	2943.4	2854.5	2690.0
7.5°	4610.8	4613.0	4613.0	4519.6	4388.5	4146.1	3890.5	3545.9	3281.3	3150.2	2870.1
10°	5126.5	5082.1	5057.6	5048.7	4959.8	4724.1	4450.7	4023.9	3661.5	3508.1	3005.7
12.5°	5491.1	5453.3	5508.9	5480.0	5415.5	5262.1	5004.3	4517.4	4063.9	3857.1	3223.5
15°	5664.5	5691.2	5735.7	5815.7	5786.8	5729.0	5444.4	5024.3	4497.4	4264.0	3416.9
17.5°	5931.3	5857.9	5911.3	6011.3	6091.4	6064.7	5902.4	5391.1	4926.5	4639.7	3677.1
20°	6118.1	6075.8	6102.5	6218.1	6278.1	6429.3	6344.8	5871.3	5337.7	5035.4	3983.8
22.5°	6651.6	6589.4	6502.7	6520.4	6542.7	6649.4	6669.4	6398.2	5815.7	5495.6	4275.1
25°	7309.6	7251.8	7149.6	7045.1	6980.6	6960.6	7029.5	6811.7	6273.7	5942.4	4588.5
27.5°	8034.4	7936.6	7872.1	7656.5	7483.1	7456.4	7423.0	7305.2	6816.1	6458.2	4942.0
30°	8739.1	8661.3	8574.6	8230.0	8050.0	8021.1	7856.5	7889.9	7405.2	7007.3	5342.2
32.5°	9272.7	9279.3	9081.5	8821.4	8652.4	8499.0	8439.0	8534.6	8161.1	7841.0	5789.0
35°	9704.0	9724.0	9535.0	9299.3	9117.1	9223.8	9197.1	9241.5	9063.7	8672.4	6309.2
37.5°	10124.1	10024.1	9821.8	9708.4	9612.8	9788.4	10015.2	10053.0	10086.3	9626.1	6913.9
40°	10193.0	10201.9	10084.1	10164.1	10044.1	10308.7	10835.5	10786.6	10922.2	10519.8	7569.8
42.5°	10095.2	10115.2	10161.9	10275.3	10564.3	10882.2	11664.8	11464.7	11629.2	11271.3	8207.8
45°	9935.2	9852.9	9910.7	10342.0	10842.2	11549.2	12422.8	12267.2	12213.9	11913.7	8968.1
47.5°	9170.4	9254.9	9435.0	9966.3	10717.7	11664.8	12960.8	12925.3	13085.3	12874.1	9659.5
50°	8110.0	8076.6	8423.4	9021.5	9990.7	11438.0	12931.9	13254.3	13598.9	13305.4	9968.5
52.5°	6073.6	6251.4	6549.3	7291.9	8674.7	10201.9	12300.6	12838.6	13118.7	13056.4	9719.5
55°	3839.3	3892.7	4072.8	4955.4	6200.3	8187.8	10544.3	11791.5	12291.7	12525.1	9490.5
57.5°	1865.2	1765.2	1985.3	2694.4	3581.5	5506.7	8132.2	10270.9	11358.0	11780.4	8992.6
60°	973.7	1011.5	1098.2	1351.7	1851.9	2858.9	5068.7	6845.0	8505.7	9154.8	6816.1
62.5°	807.0	820.3	878.1	1004.9	1231.6	1645.1	2587.7	3336.9	4337.3	4922.0	3877.1
65°	684.7	691.4	753.6	838.1	982.6	1158.3	1331.7	1393.9	1687.4	1731.8	1378.3
67.5°	571.3	578.0	644.7	724.7	818.1	864.8	909.3	904.8	938.2	924.8	922.6
70°	440.2	446.8	515.8	600.2	646.9	620.3	758.1	789.2	802.5	813.7	831.5
72.5°	317.9	331.2	384.6	444.6	420.2	482.4	624.7	671.4	689.2	695.8	718.1
75°	231.2	235.7	249.0	231.2	266.8	335.7	440.2	498.0	520.2	526.9	560.2
77.5°	102.3	104.5	106.7	133.4	171.2	209.0	262.3	309.0	340.1	349.0	357.9
80°	53.4	55.6	68.9	91.1	122.3	153.4	191.2	217.9	237.9	240.1	249.0
82.5°	33.3	35.6	48.9	64.5	86.7	113.4	140.1	162.3	177.9	180.1	182.3
85°	15.6	20.0	28.9	40.0	57.8	73.4	75.6	64.5	68.9	71.1	66.7
87.5°	4.4	6.7	8.9	6.7	8.9	8.9	11.1	13.3	13.3	13.3	15.6
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°	2501.0	2501.0	2501.0	2501.0	2501.0	2501.0	2501.0	2501.0	2501.0	2501.0	2501.0
2.5°	2541.0	2521.0	2443.2	2414.3	2338.7	2352.1	2312.1	2309.8	2300.9	2298.7	2296.5
5°	2603.3	2541.0	2447.7	2376.5	2334.3	2329.8	2300.9	2300.9	2309.8	2316.5	2300.9
7.5°	2705.5	2634.4	2476.6	2409.9	2372.1	2365.4	2345.4	2329.8	2349.8	2343.2	2325.4
10°	2823.4	2698.9	2532.1	2474.3	2412.1	2396.5	2396.5	2403.2	2369.9	2381.0	2363.2
12.5°	2954.5	2787.8	2603.3	2536.6	2463.2	2454.3	2449.9	2401.0	2418.8	2409.9	2365.4
15°	3121.3	2890.1	2694.4	2581.1	2518.8	2478.8	2421.0	2412.1	2401.0	2378.7	2358.7
17.5°	3301.3	3001.2	2736.7	2594.4	2501.0	2472.1	2427.7	2381.0	2347.6	2352.1	2336.5
20°	3454.7	3103.5	2752.2	2607.7	2487.7	2432.1	2363.2	2334.3	2298.7	2296.5	2294.3
22.5°	3637.0	3241.3	2774.5	2572.2	2447.7	2389.9	2343.2	2292.0	2267.6	2236.5	2252.0
25°	3854.9	3294.7	2778.9	2552.2	2418.8	2316.5	2292.0	2236.5	2227.6	2183.1	2192.0
27.5°	4012.7	3323.6	2743.3	2489.9	2352.1	2274.3	2229.8	2189.8	2174.2	2140.9	2132.0
30°	4223.9	3368.0	2667.8	2412.1	2285.4	2198.7	2172.0	2163.1	2118.6	2083.1	2078.6
32.5°	4464.0	3396.9	2618.8	2332.1	2216.5	2149.8	2163.1	2120.9	2065.3	2034.2	2025.3
35°	4655.2	3408.1	2496.6	2240.9	2169.8	2127.5	2112.0	2103.1	2023.0	1994.1	1971.9
37.5°	4946.5	3383.6	2394.3	2176.4	2118.6	2103.1	2089.7	2029.7	1938.6	1896.3	1865.2
40°	5286.6	3376.9	2263.1	2085.3	2069.7	2087.5	2047.5	1954.1	1827.4	1780.7	1758.5
42.5°	5613.4	3423.6	2180.9	2036.4	2016.4	2023.0	1967.5	1827.4	1765.2	1738.5	1702.9
45°	6160.3	3521.4	2045.3	1960.8	1951.9	1947.5	1880.8	1734.0	1698.5	1665.1	1658.5
47.5°	6653.8	3457.0	1958.6	1883.0	1891.9	1867.4	1725.1	1678.5	1638.4	1605.1	1594.0
50°	6682.7	3303.6	1836.3	1823.0	1825.2	1782.9	1647.3	1616.2	1565.1	1542.9	1527.3
52.5°	6531.6	3052.4	1722.9	1727.4	1734.0	1665.1	1551.7	1529.5	1487.3	1456.1	1447.3
55°	6106.9	2661.1	1611.8	1629.6	1647.3	1516.2	1480.6	1425.0	1391.7	1347.2	1349.4
57.5°	5380.0	2143.1	1456.1	1485.1	1522.8	1378.3	1351.7	1282.7	1233.8	1198.3	1193.8
60°	3605.9	1525.1	1222.7	1233.8	1318.3	1260.5	1258.3	1189.4	1122.7	1091.6	1073.8
62.5°	2127.5	1164.9	1056.0	1044.9	1042.6	1076.0	1131.6	1107.1	1020.4	960.4	978.2
65°	1113.8	1007.1	982.6	944.8	922.6	913.7	955.9	967.1	909.3	844.8	840.3
67.5°	935.9	935.9	915.9	902.6	871.5	833.7	807.0	771.4	762.5	744.7	722.5
70°	851.5	873.7	867.0	835.9	809.2	767.0	698.1	640.3	584.7	564.7	578.0
72.5°	742.5	764.8	764.8	749.2	713.6	649.2	582.5	515.8	469.1	433.5	429.1
75°	571.3	582.5	609.1	591.4	544.7	504.7	435.7	366.8	322.4	289.0	282.3
77.5°	364.6	382.4	382.4	380.2	346.8	309.0	264.6	215.6	182.3	157.8	151.2
80°	242.3	253.4	262.3	253.4	231.2	202.3	169.0	135.6	111.2	91.1	86.7
82.5°	177.9	191.2	197.9	189.0	166.7	144.5	120.0	95.6	71.1	55.6	51.1
85°	68.9	71.1	80.0	95.6	93.4	91.1	73.4	53.4	40.0	28.9	26.7
87.5°	17.8	15.6	17.8	17.8	15.6	13.3	13.3	13.3	13.3	6.7	8.9
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)