

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: P527162

Luminaire Tested: **GALN-SA2A-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527162
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-SA2A-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA 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: 6594 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63
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



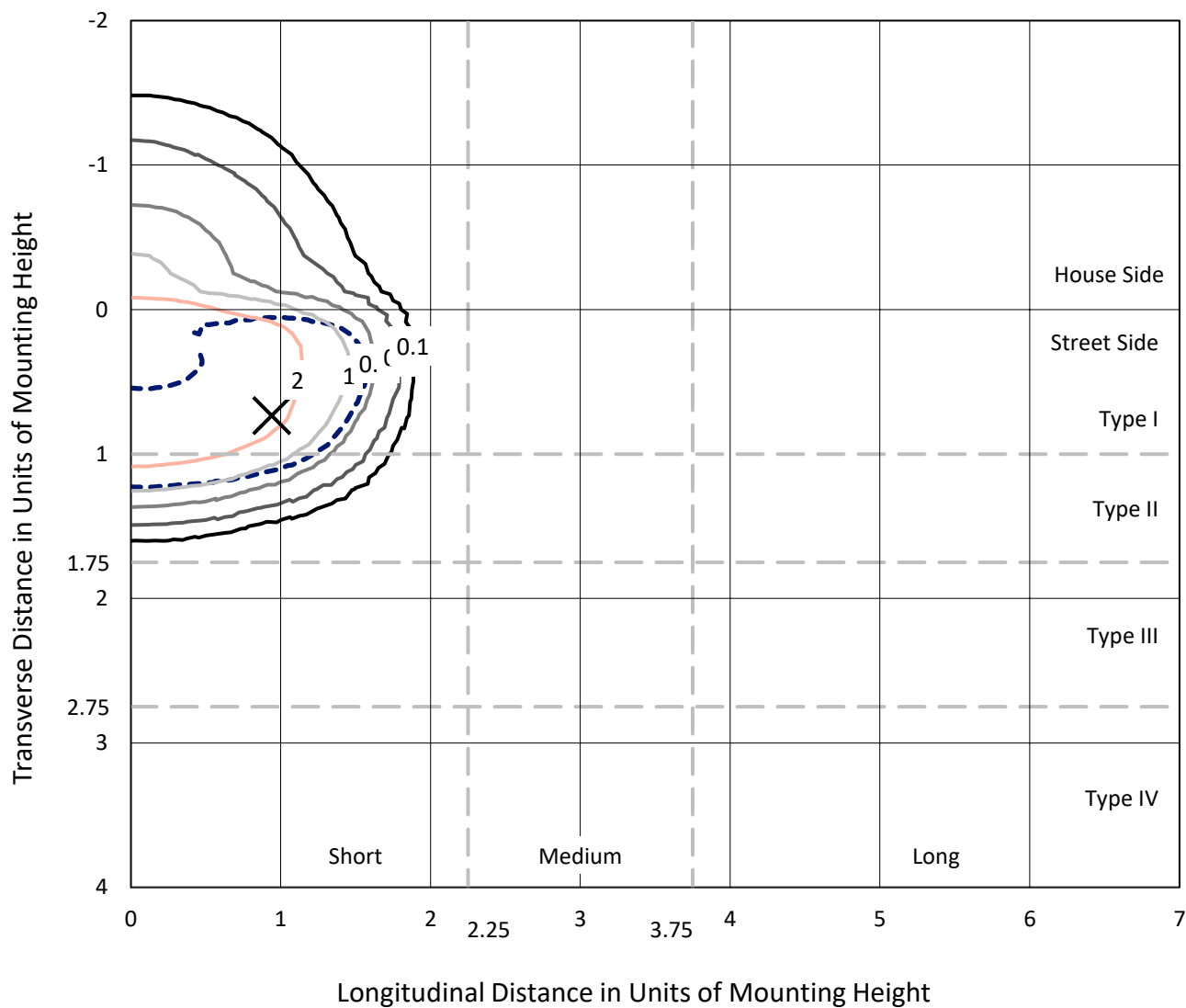
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

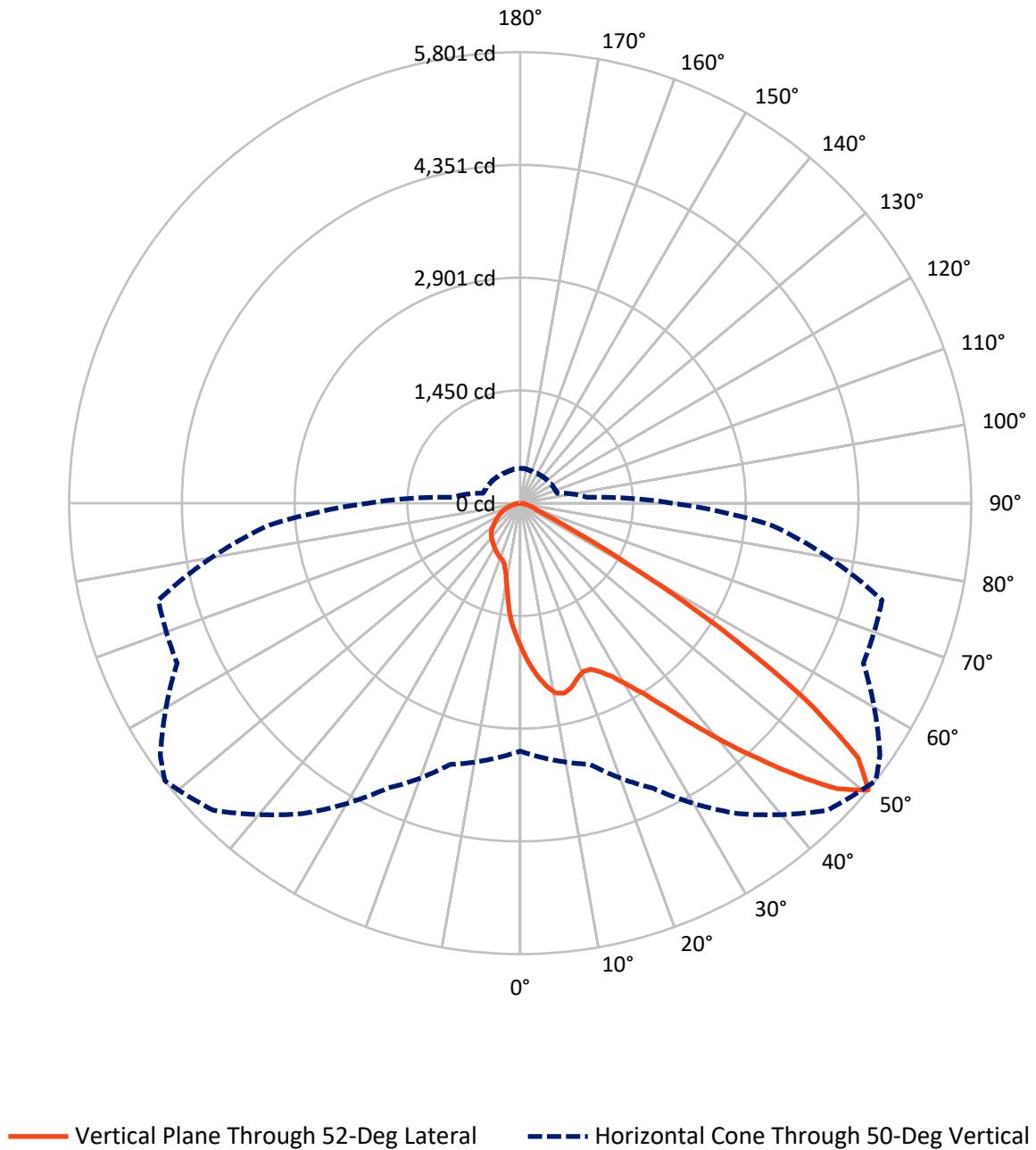
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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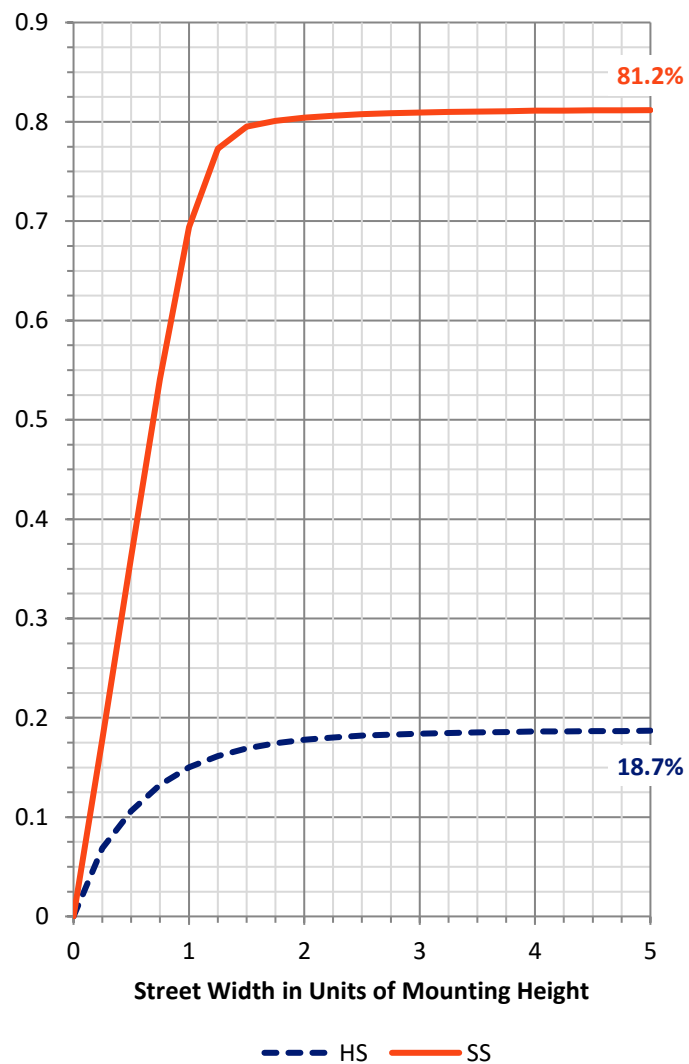
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1239.5	0.0	1239.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5354.5	0.0	5354.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	6594.0	0.0	6594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	2.6
10°-20°	459.2	7.0
20°-30°	773.5	11.7
30°-40°	1297.9	19.7
40°-50°	1985.5	30.1
50°-60°	1447.6	22.0
60°-70°	322.2	4.9
70°-80°	116.2	1.8
80°-90°	20.6	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°	6594.0	100.0
0°-180°	6594.0	100.0

Coefficient of Utilization



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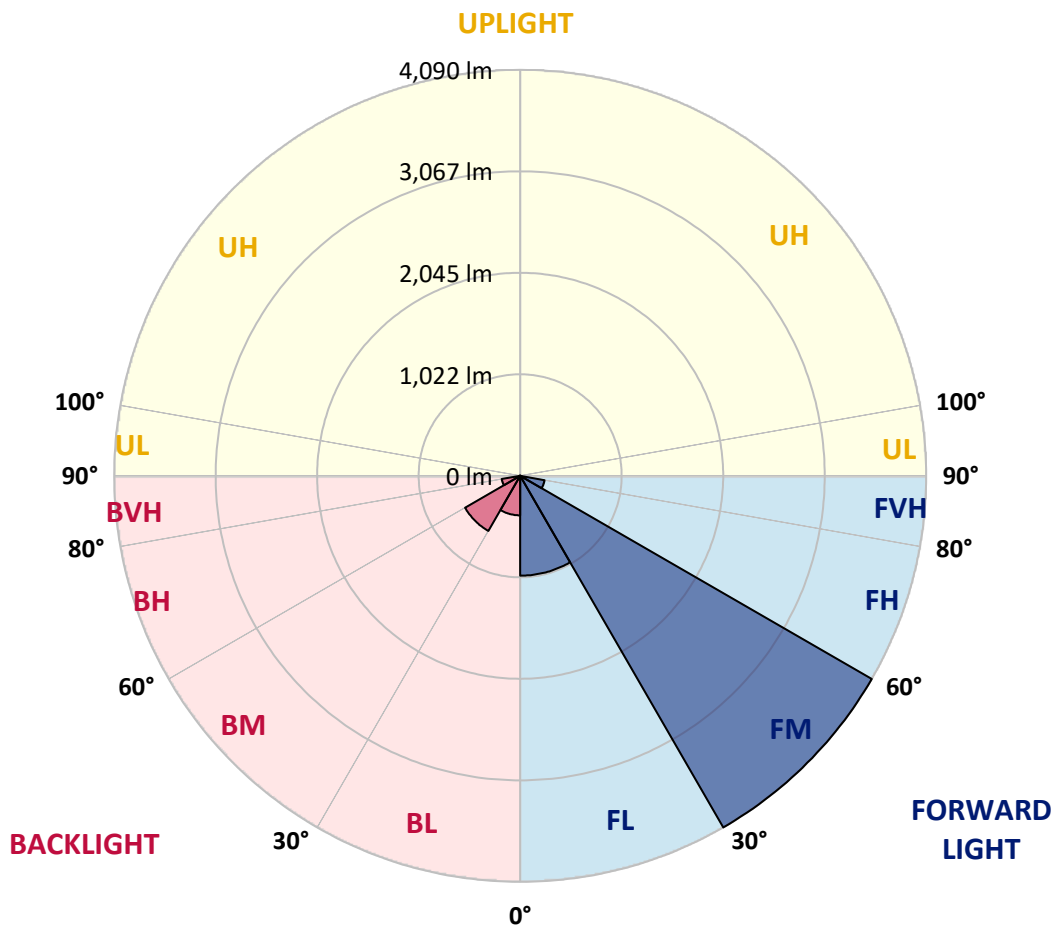
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.8	15.3			
FM	(30°-60°)	4089.9	62.0			
FH	(60°-80°)	249.5	3.8			G0/660
FVH	(80°-90°)	9.2	0.1			G0/10
BL	(0°-30°)	398.2	6.0	B1/500		
BM	(30°-60°)	641.2	9.7	B1/1000		
BH	(60°-80°)	188.8	2.9	B1/500		G1/500
BVH	(80°-90°)	11.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7
2.5°	2188.5	2146.4	2151.2	2121.0	2088.4	2078.9	2045.5	2013.7	1989.9	1939.0	1892.1
5°	2392.0	2379.2	2360.2	2336.3	2311.7	2251.3	2217.1	2177.4	2090.0	2011.3	1933.4
7.5°	2421.4	2419.0	2429.3	2429.3	2438.1	2415.0	2366.5	2338.7	2245.7	2117.8	1973.2
10°	2214.8	2221.9	2272.0	2337.1	2427.7	2490.5	2482.6	2475.4	2373.7	2198.9	2020.1
12.5°	2050.3	2034.4	2063.8	2119.4	2255.3	2407.1	2509.6	2510.4	2484.1	2328.4	2054.2
15°	1957.3	1968.4	1976.4	2002.6	2105.1	2280.7	2461.1	2514.3	2629.6	2419.8	2108.3
17.5°	2016.9	1979.5	1977.9	1984.3	2036.7	2168.7	2371.3	2462.7	2709.0	2537.4	2175.0
20°	2094.8	2094.0	2071.7	2063.8	2063.0	2180.6	2312.5	2436.5	2751.2	2690.0	2242.6
22.5°	2231.4	2231.4	2194.9	2177.4	2140.1	2236.2	2320.4	2404.7	2821.1	2794.9	2275.1
25°	2460.3	2423.0	2360.2	2317.3	2295.8	2330.0	2404.7	2480.2	2882.3	2906.1	2342.7
27.5°	2671.7	2612.9	2581.9	2508.0	2479.4	2459.5	2527.9	2604.1	2953.8	3079.4	2379.2
30°	2911.7	2901.3	2845.7	2750.4	2679.6	2643.1	2705.9	2781.4	3084.9	3256.6	2463.5
32.5°	3340.8	3247.0	3171.5	3054.7	2939.5	2861.6	2923.6	2973.7	3302.7	3441.7	2555.7
35°	3804.1	3773.9	3643.6	3433.0	3256.6	3186.6	3223.2	3260.5	3556.2	3724.6	2710.6
37.5°	4259.4	4218.1	4110.8	3933.6	3719.1	3576.8	3603.0	3646.8	3840.7	4106.1	2899.8
40°	4586.9	4536.0	4482.0	4455.7	4242.8	4048.1	4033.0	4044.1	4225.3	4463.7	3109.6
42.5°	4610.7	4673.5	4690.2	4795.8	4745.8	4586.1	4493.1	4495.5	4592.4	4817.3	3321.7
45°	4560.6	4502.6	4625.8	4914.3	5079.5	5154.2	4997.7	4977.8	4819.7	5022.3	3427.4
47.5°	4035.3	4051.2	4259.4	4715.6	5193.2	5526.9	5490.4	5424.4	4941.3	5015.2	3410.7
50°	3189.8	3286.0	3479.1	4047.3	4875.3	5585.8	5801.1	5648.5	4869.0	4818.1	3240.7
52.5°	2124.2	2163.9	2291.0	3024.5	3920.1	4992.9	5443.5	5478.5	4802.2	4559.8	3025.3
55°	945.7	942.5	1121.3	1579.8	2459.5	3799.3	4447.8	4660.8	4545.5	4296.8	2815.5
57.5°	400.5	414.0	487.1	682.6	1209.5	2292.6	3013.4	3200.1	3495.8	3528.3	2159.9
60°	271.0	272.6	292.4	341.7	506.2	1076.8	1580.6	1804.7	2016.1	2001.8	1145.9
62.5°	213.0	218.5	233.6	253.5	300.4	488.7	707.3	832.0	845.5	711.2	434.7
65°	182.0	182.8	197.9	214.6	235.2	284.5	340.9	347.3	351.2	338.5	319.5
67.5°	150.2	151.8	163.7	182.8	201.8	217.7	233.6	241.6	259.9	295.6	290.9
70°	119.2	121.6	131.9	147.8	165.3	174.8	194.7	201.8	218.5	246.3	257.5
72.5°	90.6	91.4	100.1	111.3	127.1	136.7	153.4	161.3	172.4	196.3	206.6
75°	65.2	67.5	73.9	79.5	81.9	88.2	104.1	112.8	128.7	139.1	139.9
77.5°	34.2	35.8	37.3	37.3	45.3	57.2	67.5	72.3	83.4	91.4	87.4
80°	13.5	14.3	18.3	24.6	31.8	41.3	48.5	50.9	60.4	65.2	67.5
82.5°	7.9	8.7	11.9	17.5	23.0	29.4	35.0	37.3	43.7	49.3	50.9
85°	4.0	4.8	7.2	11.1	15.1	18.3	17.5	16.7	16.7	15.9	16.7
87.5°	1.6	1.6	2.4	2.4	2.4	3.2	4.0	4.0	4.0	4.8	4.8
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°	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7
2.5°	1861.1	1829.3	1799.9	1745.9	1687.1	1670.4	1602.1	1577.4	1559.9	1539.3	1532.9
5°	1870.7	1828.5	1734.0	1625.1	1538.5	1427.2	1354.1	1275.4	1218.2	1203.9	1200.0
7.5°	1890.5	1818.2	1655.3	1490.8	1313.6	1162.6	1047.4	985.4	930.6	927.4	921.8
10°	1912.8	1787.2	1569.5	1311.2	1084.7	944.9	875.7	848.7	835.2	832.0	830.4
12.5°	1931.1	1780.9	1473.3	1136.4	922.6	838.4	817.7	815.3	820.9	822.5	825.7
15°	1939.0	1755.4	1357.3	979.8	821.7	790.7	799.4	809.0	813.0	823.3	815.3
17.5°	1954.1	1722.9	1214.3	855.9	765.3	770.8	785.9	797.1	803.4	810.6	800.2
20°	1962.0	1693.4	1080.0	782.0	745.4	755.7	776.4	785.1	793.1	796.3	784.3
22.5°	1954.9	1633.1	961.6	722.4	726.3	739.8	758.1	767.7	762.9	750.2	743.0
25°	1935.8	1548.0	838.4	684.2	699.3	723.2	737.5	730.3	721.6	714.4	712.0
27.5°	1935.0	1443.9	749.4	649.2	676.3	708.8	704.1	697.7	701.7	696.1	689.8
30°	1939.0	1343.0	676.3	629.4	659.6	675.5	681.0	674.7	679.4	669.1	672.3
32.5°	1918.3	1244.5	628.6	606.3	639.7	638.9	657.2	662.0	650.8	629.4	632.6
35°	1927.1	1165.0	588.1	596.0	617.5	617.5	631.8	626.2	596.8	584.1	587.3
37.5°	1987.5	1087.1	568.2	581.7	596.0	602.4	597.6	573.8	566.6	566.6	568.2
40°	2044.7	1020.4	556.3	578.5	576.1	580.1	545.1	547.5	547.5	548.3	544.4
42.5°	2095.6	975.1	546.7	559.4	563.4	542.8	521.3	518.9	524.5	523.7	520.5
45°	2113.8	937.7	533.2	538.0	541.2	507.0	496.7	491.9	498.3	500.6	503.8
47.5°	2043.9	906.7	518.1	508.6	502.2	480.0	466.5	457.7	465.7	479.2	482.4
50°	1954.1	866.2	494.3	476.0	462.5	453.0	443.4	434.7	440.2	449.8	447.4
52.5°	1821.4	802.6	464.1	445.0	422.0	424.4	415.6	410.8	414.0	414.0	411.6
55°	1632.3	659.6	413.2	399.7	380.6	387.0	388.6	382.2	375.9	381.4	376.7
57.5°	1114.1	465.7	368.7	368.7	349.7	358.4	357.6	342.5	327.4	329.0	325.8
60°	644.5	371.1	340.1	336.9	317.1	324.2	325.8	315.5	292.4	294.0	290.9
62.5°	366.3	317.1	297.2	292.4	288.5	294.8	294.8	281.3	261.4	263.0	259.9
65°	311.5	294.0	265.4	264.6	263.0	264.6	258.3	244.0	226.5	219.3	220.1
67.5°	282.9	271.8	244.0	236.8	232.0	231.2	219.3	205.8	197.9	191.5	190.7
70°	247.9	239.2	218.5	209.0	204.2	193.1	181.2	172.4	161.3	158.1	161.3
72.5°	196.3	195.5	187.5	177.2	166.9	158.1	147.8	135.9	125.6	123.2	117.6
75°	135.9	137.5	139.1	137.5	128.7	117.6	105.7	96.2	83.4	76.3	74.7
77.5°	89.0	91.4	93.8	90.6	85.0	74.7	66.8	54.8	45.3	39.7	38.9
80°	65.2	68.3	69.9	67.5	61.2	53.2	44.5	35.0	27.8	23.0	23.0
82.5°	50.1	53.2	54.8	50.9	44.5	38.1	31.8	24.6	19.1	15.1	14.3
85°	17.5	16.7	19.9	20.7	24.6	23.0	19.1	14.3	11.1	7.9	7.2
87.5°	4.8	4.8	5.6	5.6	4.8	4.0	4.0	4.0	3.2	2.4	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)