

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: P527958

Luminaire Tested: **GALN-SA3A-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10600 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

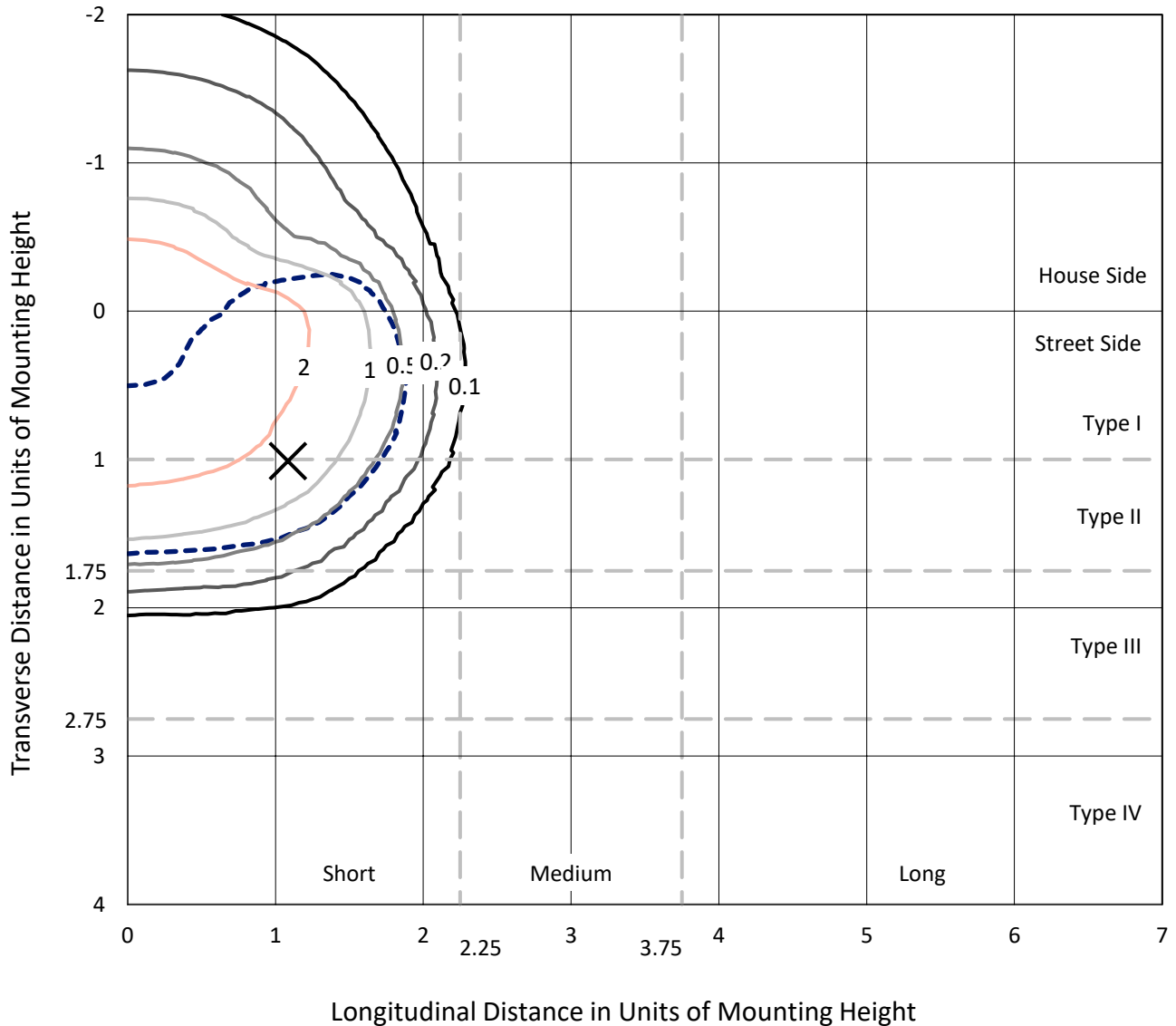
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

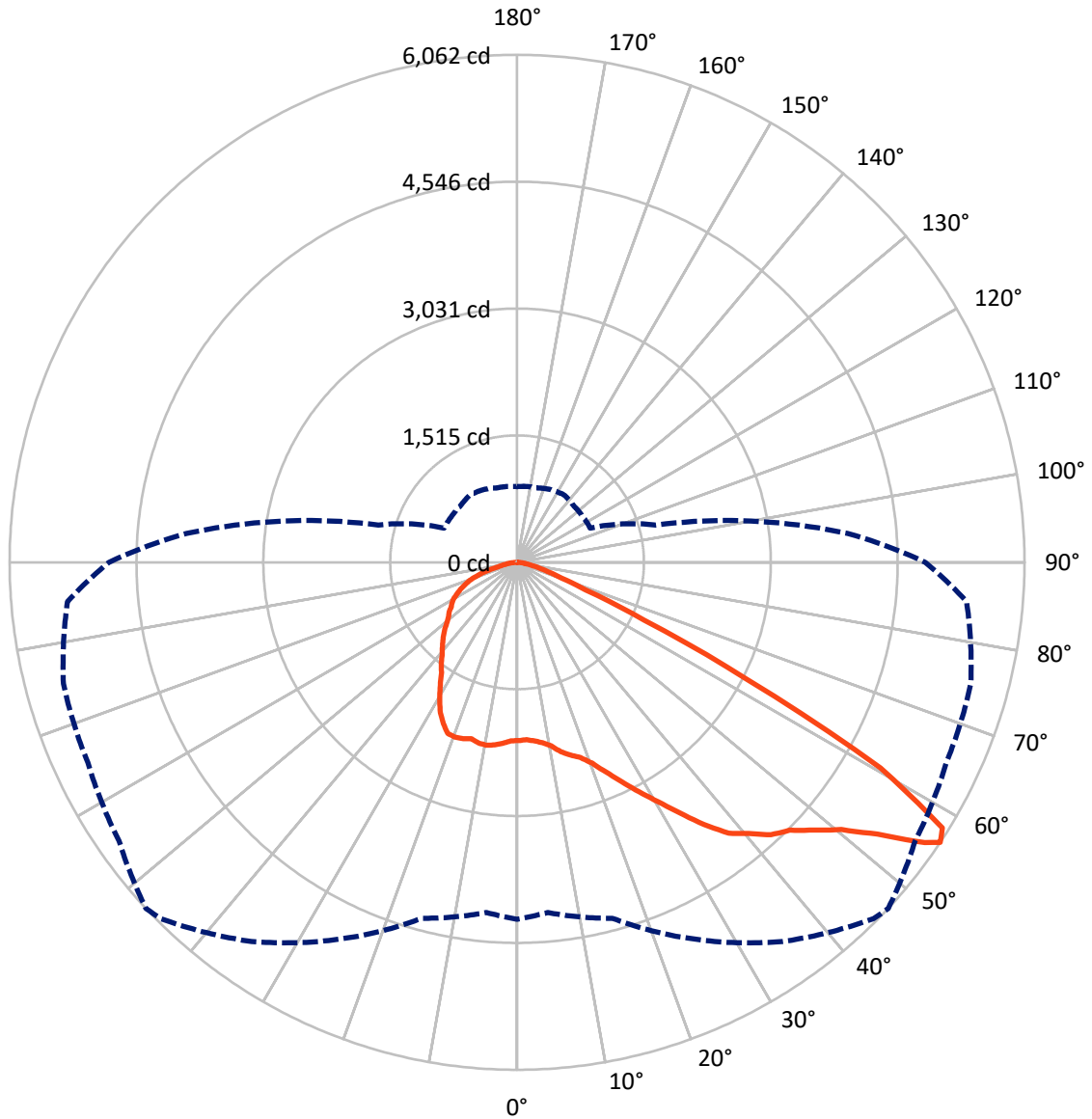
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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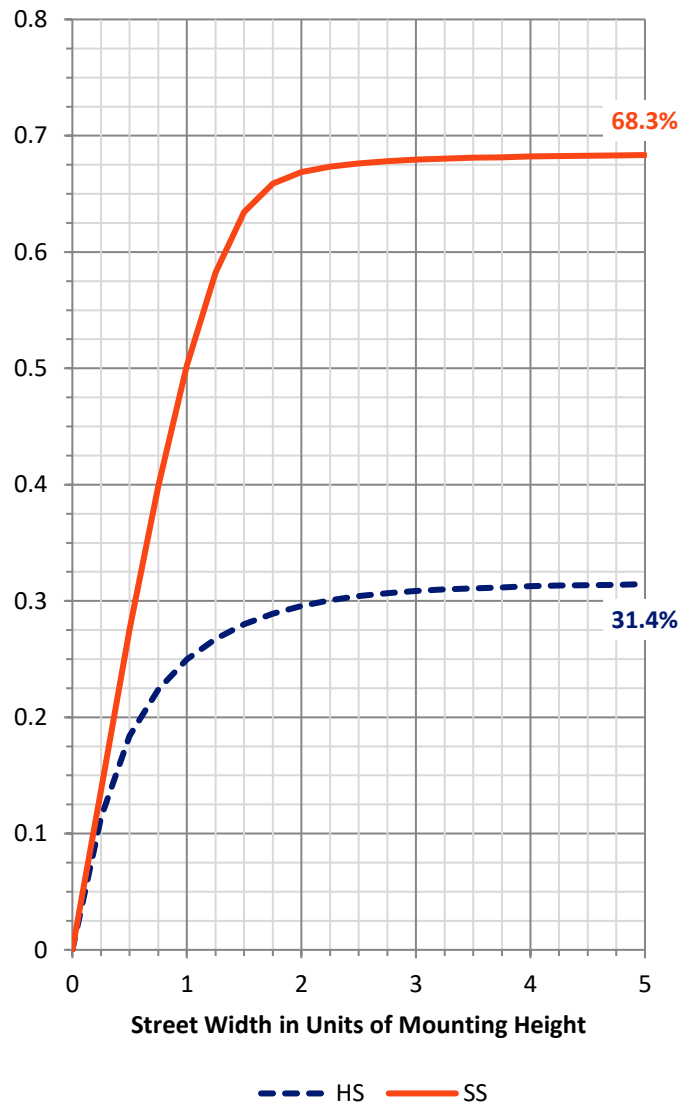
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3359.0	0.0	3359.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	7241.0	0.0	7241.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	10600.0	0.0	10600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	2.0
10°-20°	654.4	6.2
20°-30°	1156.9	10.9
30°-40°	1737.6	16.4
40°-50°	2384.7	22.5
50°-60°	2841.1	26.8
60°-70°	1215.8	11.5
70°-80°	344.1	3.2
80°-90°	57.9	0.5
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°	10600.0	100.0
0°-180°	10600.0	100.0

Coefficient of Utilization

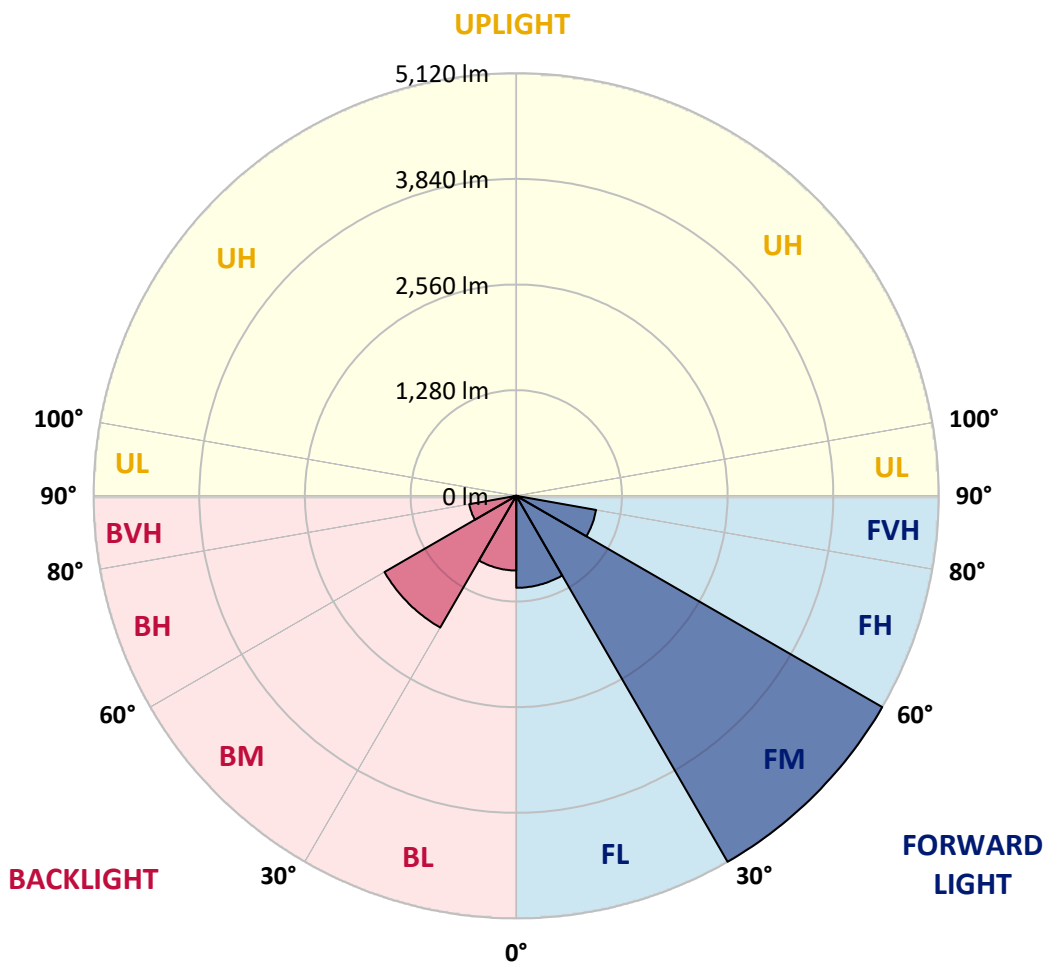


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.4	10.5			
FM (30°-60°)	5120.0	48.3			
FH (60°-80°)	981.9	9.3			G1/1800
FVH (80°-90°)	24.6	0.2			G1/100
BL (0°-30°)	904.4	8.5	B2/1000		
BM (30°-60°)	1843.4	17.4	B2/2500		
BH (60°-80°)	577.9	5.5	B2/1000		G2/1000
BVH (80°-90°)	33.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2129.2	2129.2	2129.2	2129.2	2129.2	2129.2	2129.2	2129.2	2129.2	2129.2	2129.2
2.5°	2121.1	2117.1	2114.3	2136.0	2127.9	2129.2	2121.1	2129.2	2134.6	2122.5	2140.0
5°	2117.1	2129.2	2118.4	2125.2	2142.7	2137.3	2142.7	2159.0	2154.9	2150.8	2145.4
7.5°	2154.9	2156.3	2164.4	2167.1	2172.5	2167.1	2175.2	2190.1	2186.0	2163.0	2165.7
10°	2209.0	2211.7	2213.0	2227.9	2237.4	2238.7	2229.3	2215.7	2214.4	2245.5	2223.8
12.5°	2271.2	2264.4	2280.6	2286.0	2296.9	2309.0	2321.2	2292.8	2310.4	2311.7	2286.0
15°	2361.7	2368.5	2349.6	2349.6	2353.6	2355.0	2388.8	2375.3	2372.6	2357.7	2368.5
17.5°	2496.9	2451.0	2449.6	2430.7	2428.0	2438.8	2451.0	2461.8	2498.3	2468.5	2410.4
20°	2595.6	2606.4	2567.2	2544.2	2548.3	2572.6	2560.5	2609.1	2634.8	2586.2	2529.4
22.5°	2770.0	2733.5	2743.0	2691.6	2695.7	2721.3	2720.0	2770.0	2784.9	2707.8	2625.4
25°	2887.6	2878.2	2886.3	2845.7	2851.1	2871.4	2903.8	2986.3	2962.0	2876.8	2686.2
27.5°	3059.3	3040.4	3033.6	3018.8	3013.4	3067.4	3105.3	3193.2	3175.6	3051.2	2794.3
30°	3235.1	3222.9	3229.7	3168.8	3190.4	3305.4	3316.2	3436.5	3428.4	3209.4	2914.7
32.5°	3356.7	3363.5	3375.7	3341.9	3437.8	3529.8	3566.3	3702.8	3709.6	3481.1	3147.2
35°	3552.8	3529.8	3536.5	3575.7	3620.3	3788.0	3847.5	3938.0	3994.8	3766.3	3370.2
37.5°	3675.8	3700.1	3671.7	3733.9	3850.2	4051.6	4105.7	4199.0	4258.4	4047.5	3674.4
40°	3867.7	3828.5	3848.8	3893.4	4012.4	4274.7	4259.8	4355.8	4374.7	4286.8	3958.3
42.5°	4074.6	4055.7	4027.3	4128.7	4228.7	4419.3	4449.1	4404.4	4500.4	4520.7	4363.9
45°	4322.0	4345.0	4349.0	4351.7	4439.6	4605.9	4565.3	4526.1	4637.0	4784.3	4615.3
47.5°	4551.8	4478.8	4531.5	4604.5	4728.9	4730.2	4777.6	4684.3	4801.9	4933.0	4842.4
50°	4628.9	4593.7	4664.0	4801.9	4993.9	5014.1	5019.5	4887.1	4947.9	5052.0	4920.9
52.5°	4599.1	4586.9	4766.7	4980.3	5261.5	5364.3	5391.3	5227.7	5261.5	5214.2	5093.9
55°	4457.2	4493.7	4674.8	5110.1	5541.4	5859.1	5910.4	5703.6	5488.7	5525.2	5392.7
56°	4262.5	4199.0	4401.7	4962.8	5529.2	6019.9	6061.8	5803.6	5657.6	5610.3	5390.0
57.5°	3616.3	3533.8	3800.1	4465.3	5222.3	5959.1	5990.2	5845.5	5629.2	5533.3	4996.6
60°	2117.1	2157.6	2495.6	3079.6	4028.6	4885.7	4989.8	5095.3	4950.6	4520.7	3719.0
62.5°	1022.0	996.3	1238.3	1765.6	2455.0	3118.8	3087.7	3383.8	3546.0	3212.1	2348.2
65°	535.3	532.6	675.9	963.9	1349.2	1638.5	1666.9	1826.4	2049.5	1654.7	1192.4
67.5°	393.4	404.2	475.9	677.3	867.9	885.5	881.4	961.2	982.8	831.4	732.7
70°	308.2	313.6	366.4	515.1	646.2	578.6	566.4	575.9	639.4	666.5	634.0
72.5°	223.1	228.5	273.1	347.4	404.2	394.8	402.9	455.6	534.0	562.4	528.6
75°	148.7	152.8	177.1	212.2	239.3	258.2	273.1	333.9	406.9	423.1	406.9
77.5°	102.7	106.8	123.0	150.1	152.8	164.9	170.3	198.7	243.3	263.6	252.8
80°	58.1	58.1	66.2	77.1	94.6	110.9	113.6	136.5	156.8	170.3	173.0
82.5°	27.0	28.4	35.1	47.3	62.2	77.1	79.8	94.6	109.5	123.0	127.1
85°	13.5	14.9	20.3	28.4	37.9	46.0	44.6	46.0	48.7	46.0	47.3
87.5°	4.1	4.1	5.4	6.8	5.4	6.8	6.8	8.1	9.5	10.8	12.2
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°	2129.2	2129.2	2129.2	2129.2	2129.2	2129.2	2129.2	2129.2	2129.2	2129.2	2129.2
2.5°	2141.4	2145.4	2118.4	2144.1	2134.6	2133.3	2152.2	2149.5	2156.3	2153.6	2137.3
5°	2142.7	2133.3	2161.7	2136.0	2148.1	2173.8	2156.3	2196.8	2176.5	2190.1	2160.3
7.5°	2184.6	2187.3	2181.9	2192.8	2187.3	2199.5	2190.1	2199.5	2183.3	2184.6	2211.7
10°	2221.1	2213.0	2222.5	2209.0	2218.4	2214.4	2192.8	2186.0	2191.4	2184.6	2202.2
12.5°	2288.7	2273.9	2267.1	2250.9	2240.1	2199.5	2165.7	2146.8	2172.5	2176.5	2168.4
15°	2357.7	2359.0	2327.9	2291.4	2223.8	2163.0	2171.1	2177.9	2177.9	2188.7	2168.4
17.5°	2400.9	2400.9	2372.6	2299.6	2230.6	2195.5	2187.3	2165.7	2146.8	2144.1	2142.7
20°	2476.7	2453.7	2388.8	2298.2	2227.9	2211.7	2150.8	2099.5	2060.3	2046.8	2045.4
22.5°	2563.2	2505.0	2414.5	2300.9	2223.8	2200.9	2087.3	2010.3	1940.0	1910.2	1914.3
25°	2642.9	2549.7	2429.3	2288.7	2209.0	2098.1	1971.0	1864.2	1791.2	1766.9	1754.7
27.5°	2698.4	2597.0	2429.3	2299.6	2153.6	1983.2	1853.4	1716.9	1653.4	1637.1	1639.8
30°	2772.7	2656.5	2471.2	2276.6	2042.7	1834.5	1679.0	1589.8	1552.0	1538.4	1547.9
32.5°	2947.1	2811.9	2529.4	2221.1	1911.6	1685.8	1560.1	1510.1	1454.6	1427.6	1418.1
35°	3136.4	2959.3	2586.2	2127.9	1764.2	1550.6	1472.2	1426.2	1360.0	1330.3	1335.7
37.5°	3404.0	3148.5	2590.2	1973.8	1604.7	1474.9	1403.3	1331.6	1277.5	1231.6	1218.0
40°	3765.0	3406.7	2580.7	1811.5	1476.3	1385.7	1333.0	1243.7	1182.9	1150.5	1157.2
42.5°	4082.7	3709.6	2541.5	1627.7	1360.0	1324.8	1265.4	1177.5	1118.0	1084.2	1081.5
45°	4350.4	3932.6	2467.2	1470.9	1262.7	1257.3	1188.3	1120.7	1073.4	1042.3	1055.8
47.5°	4597.8	4112.4	2355.0	1314.0	1173.4	1184.3	1118.0	1076.1	1046.4	1018.0	1016.6
50°	4687.0	4109.7	2256.3	1184.3	1101.8	1096.4	1093.7	1049.1	1018.0	993.6	1004.5
52.5°	4835.7	4155.7	2149.5	1095.0	1036.9	1038.2	1047.7	1015.3	980.1	965.2	978.8
55°	5049.3	4162.5	1914.3	990.9	982.8	992.3	992.3	970.7	940.9	928.7	922.0
56°	4874.9	3961.0	1716.9	963.9	955.8	955.8	981.5	957.1	920.6	911.2	903.1
57.5°	4496.4	3470.3	1437.1	931.4	919.3	938.2	951.7	926.0	892.2	878.7	886.8
60°	3101.2	2348.2	1080.2	861.2	861.2	892.2	903.1	865.2	850.3	849.0	838.2
62.5°	1810.2	1368.1	844.9	797.6	800.3	826.0	834.1	812.5	793.6	816.5	827.4
65°	959.8	816.5	724.6	730.0	731.4	751.6	786.8	785.4	784.1	790.9	792.2
67.5°	694.9	678.6	658.4	653.0	655.7	670.5	705.7	732.7	731.4	715.1	703.0
70°	619.2	596.2	584.0	585.4	574.6	592.1	620.5	638.1	607.0	588.1	580.0
72.5°	515.1	508.3	500.2	501.5	479.9	475.9	443.4	443.4	435.3	429.9	439.4
75°	393.4	390.7	394.8	388.0	365.0	340.7	321.7	304.2	277.1	266.3	260.9
77.5°	248.7	256.9	266.3	251.5	242.0	224.4	205.5	187.9	166.3	154.1	154.1
80°	169.0	175.7	182.5	179.8	169.0	152.8	137.9	119.0	104.1	94.6	93.3
82.5°	128.4	133.8	143.3	132.5	121.7	108.2	96.0	82.5	68.9	58.1	58.1
85°	46.0	52.7	58.1	63.5	67.6	68.9	59.5	48.7	39.2	31.1	29.7
87.5°	12.2	13.5	14.9	13.5	13.5	13.5	14.9	13.5	12.2	9.5	9.5
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)