

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: P651868

Luminaire Tested: **GALN-SA4A-840-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-840-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15087.5 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

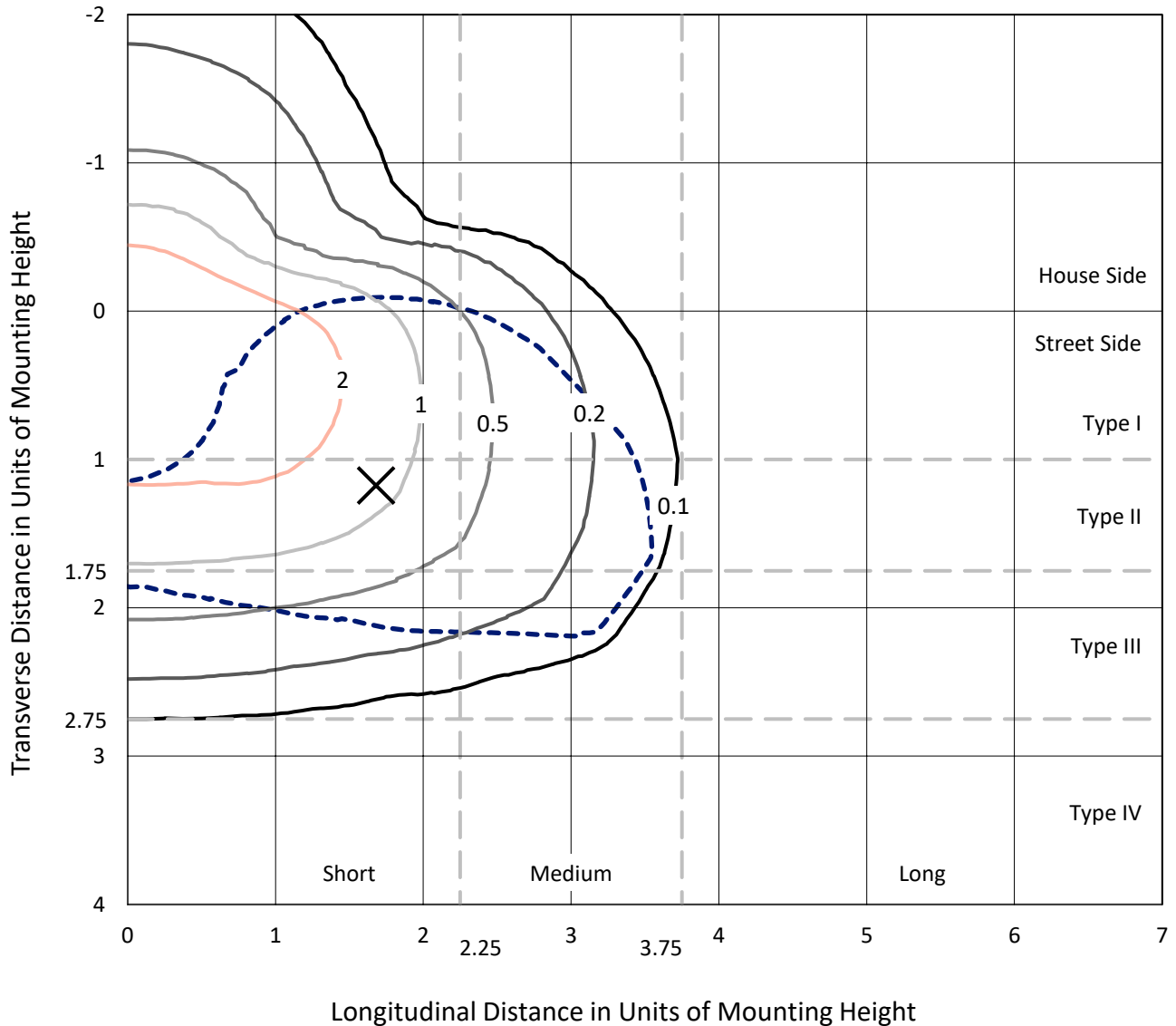
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

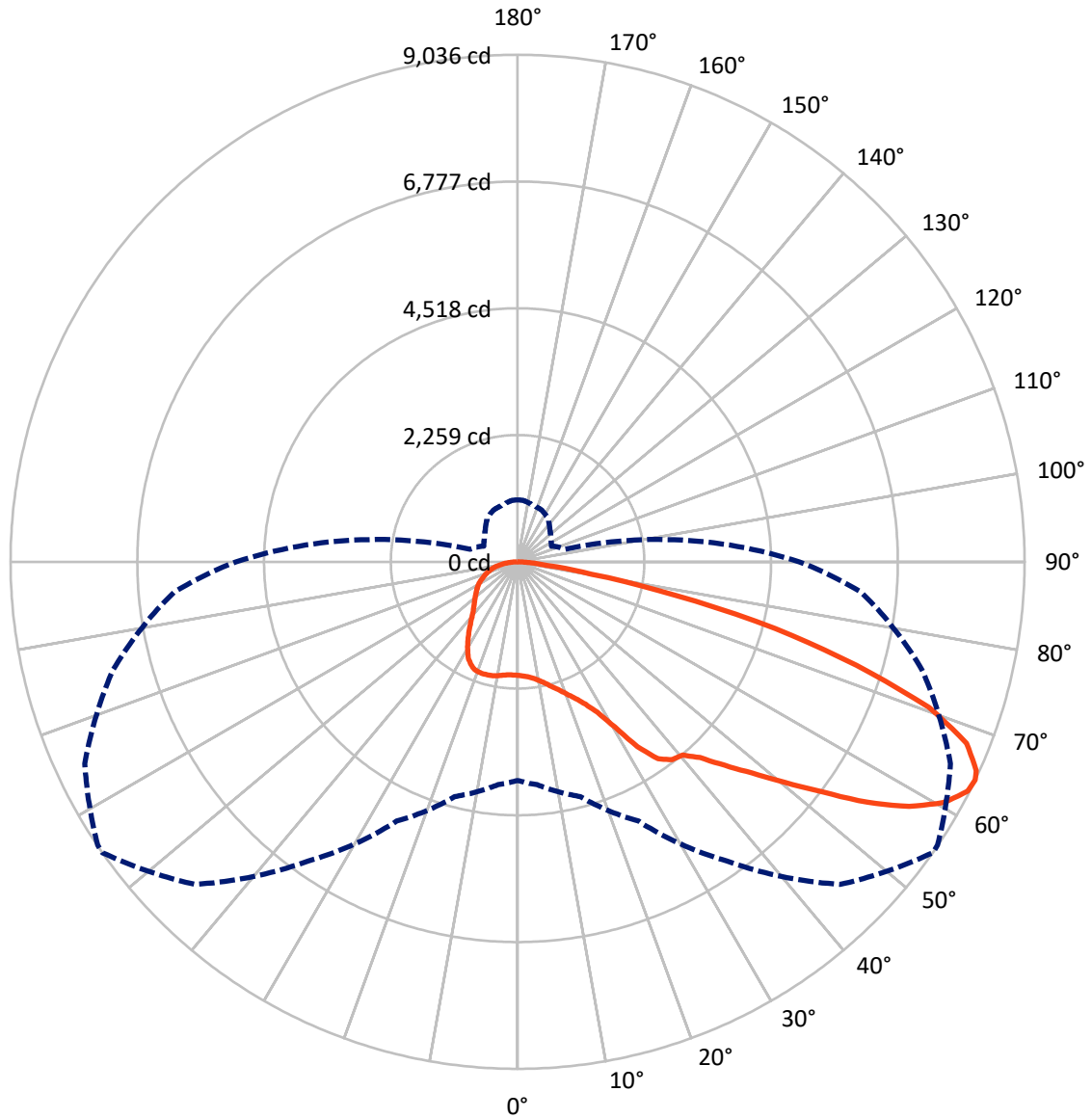
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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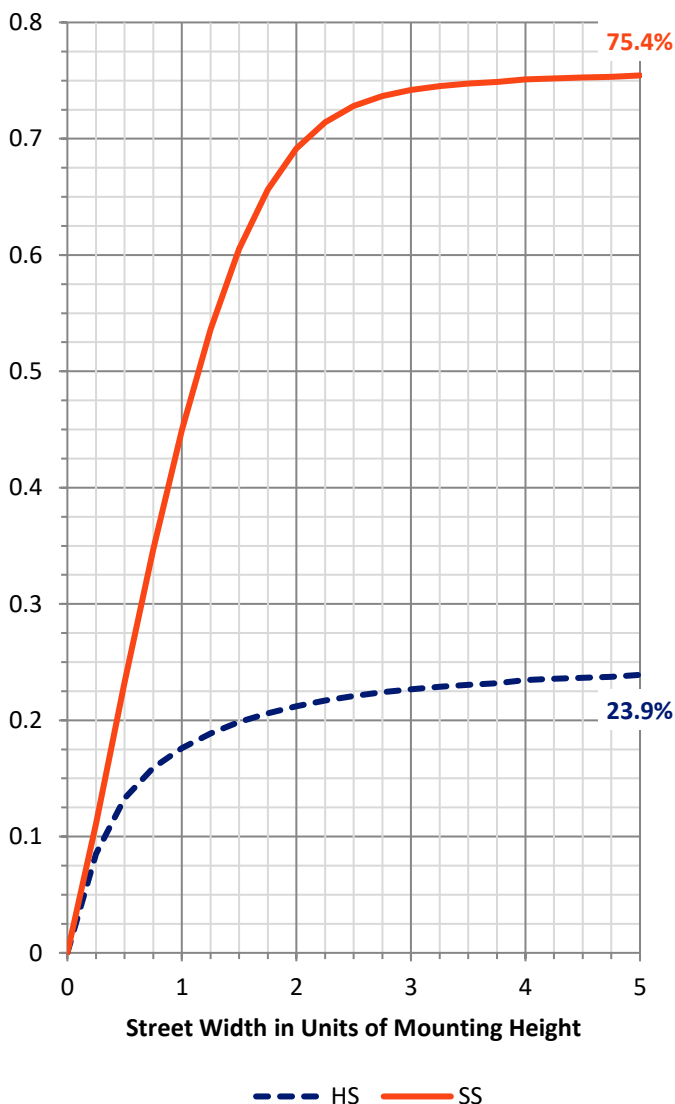
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3665.1	0.0	3665.1
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	11422.4	0.0	11422.4
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	15087.5	0.0	15087.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.9	1.3
10°-20°	621.3	4.1
20°-30°	1106.1	7.3
30°-40°	1701.8	11.3
40°-50°	2412.5	16.0
50°-60°	3492.0	23.1
60°-70°	3613.9	24.0
70°-80°	1692.4	11.2
80°-90°	250.5	1.7
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°	15087.5	100.0
0°-180°	15087.5	100.0

**Coefficient of Utilization**



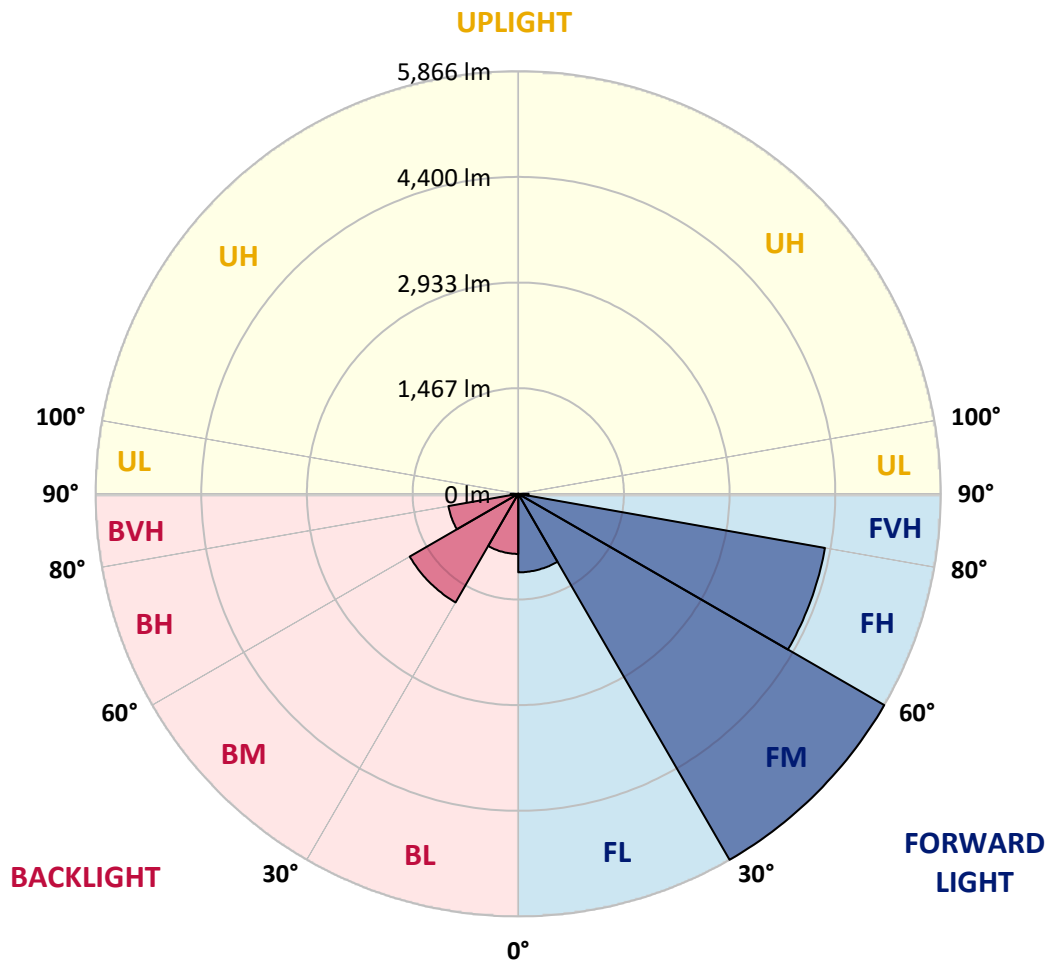
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.6	7.2			
FM (30°-60°)	5866.4	38.9			
FH (60°-80°)	4323.0	28.7			G2/5000
FVH (80°-90°)	143.4	1.0			G2/225
BL (0°-30°)	834.8	5.5	B2/1000		
BM (30°-60°)	1739.9	11.5	B2/2500		
BH (60°-80°)	983.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	107.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3
2.5°	2047.0	2046.2	2048.7	2046.2	2047.8	2041.9	2039.4	2041.1	2038.6	2034.4	2026.8
5°	2072.2	2071.4	2072.2	2068.9	2070.5	2067.2	2061.3	2063.0	2058.8	2049.5	2038.6
7.5°	2115.1	2111.8	2111.8	2110.9	2107.5	2102.5	2098.3	2096.6	2092.4	2080.6	2063.8
10°	2170.6	2170.6	2171.5	2164.7	2168.9	2159.7	2155.5	2154.6	2140.3	2125.2	2101.7
12.5°	2243.8	2248.0	2245.5	2242.1	2240.4	2237.1	2222.8	2226.1	2210.1	2184.1	2155.5
15°	2334.6	2341.3	2337.1	2335.5	2331.3	2318.6	2312.8	2310.2	2289.2	2251.4	2213.5
17.5°	2454.9	2446.5	2443.1	2438.9	2421.2	2412.0	2401.9	2400.2	2381.7	2337.1	2278.3
20°	2560.0	2571.8	2565.0	2560.8	2543.2	2525.5	2518.0	2515.4	2499.5	2450.7	2356.5
22.5°	2685.3	2687.8	2690.4	2680.3	2671.9	2658.4	2644.9	2640.7	2634.9	2584.4	2469.2
25°	2819.0	2829.1	2820.7	2810.6	2800.5	2799.7	2812.3	2810.6	2808.1	2759.3	2618.9
27.5°	3036.9	3046.1	3048.6	3037.7	2999.0	3002.4	3031.0	3040.2	3078.9	2998.2	2811.5
30°	3159.6	3168.9	3189.9	3231.1	3292.5	3346.3	3415.3	3436.3	3473.3	3321.1	3040.2
32.5°	3235.3	3238.7	3276.5	3353.1	3537.2	3738.2	3925.8	3933.4	3956.9	3743.3	3249.6
35°	3354.7	3357.3	3387.5	3471.6	3687.8	4022.5	4312.6	4321.9	4302.6	3874.5	3347.2
37.5°	3501.9	3508.7	3528.0	3597.8	3856.0	4260.5	4473.3	4466.6	4295.0	3978.8	3519.6
40°	3716.4	3716.4	3693.7	3787.9	4033.4	4396.7	4529.6	4517.9	4472.4	4280.7	3782.0
42.5°	3905.6	3902.2	3956.1	4020.0	4255.5	4607.0	4765.9	4785.3	4860.1	4660.0	4080.5
45°	4152.0	4167.2	4197.4	4313.5	4633.1	4966.1	5171.3	5189.8	5295.8	5106.6	4429.5
47.5°	4401.0	4406.0	4501.0	4655.8	5100.7	5453.0	5621.2	5651.5	5748.2	5628.8	4805.5
50°	4577.6	4625.5	4777.7	5021.6	5582.6	6046.8	6178.0	6214.1	6384.9	6197.3	5243.6
52.5°	4764.3	4811.4	4997.2	5368.9	6135.9	6654.0	6815.5	6839.9	7017.3	6772.6	5691.9
55°	4924.1	4967.8	5178.9	5676.8	6576.6	7273.8	7566.5	7537.9	7622.8	7215.8	6037.5
57.5°	4950.1	4985.4	5251.2	5873.5	6908.0	7805.3	8225.0	8241.8	8143.4	7547.1	6322.6
60°	4748.3	4820.6	5125.9	5852.5	7056.8	8175.4	8716.1	8727.9	8448.7	7717.0	6436.2
62.5°	4390.9	4383.3	4752.5	5514.4	6848.3	8259.5	9005.4	8992.8	8568.1	7635.4	6326.0
64°	3897.2	3988.0	4332.8	5099.0	6511.9	8129.9	9035.7	9029.0	8510.9	7465.6	6138.5
65°	3596.1	3591.1	3931.7	4759.2	6177.1	7934.8	8981.9	8972.6	8391.5	7313.3	5993.0
67.5°	2596.2	2607.9	2944.3	3672.6	5021.6	7172.0	8631.2	8596.7	7920.5	6808.7	5439.6
70°	1572.7	1579.4	1843.5	2436.4	3604.5	5797.9	7780.1	7781.8	7199.8	6055.2	4629.7
72.5°	828.4	846.0	952.0	1383.4	2189.1	4067.9	6311.7	6461.4	6181.3	5167.9	3657.5
75°	460.9	463.4	538.2	682.1	1116.8	2276.6	4744.1	4787.0	4893.8	4159.6	2704.7
77.5°	351.5	356.6	380.1	440.7	608.0	1055.5	2871.2	3086.5	3448.9	2932.6	1543.2
80°	285.1	290.1	310.3	346.5	404.5	500.4	1333.8	1449.9	1846.0	1301.9	602.2
82.5°	222.0	218.7	244.7	268.3	294.3	296.0	547.5	605.5	751.9	560.1	260.7
85°	164.8	164.8	185.9	180.8	190.1	173.2	241.4	266.6	301.1	238.0	121.1
87.5°	65.6	72.3	121.9	109.3	84.9	68.1	89.1	94.2	104.3	93.4	50.5
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°	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3
2.5°	2027.7	2030.2	2024.3	2020.1	2018.4	2015.9	2013.4	2014.2	2017.6	2020.9	2020.1
5°	2037.7	2038.6	2028.5	2023.4	2020.1	2016.7	2016.7	2019.2	2026.0	2031.0	2031.0
7.5°	2063.0	2063.0	2048.7	2039.4	2034.4	2028.5	2026.8	2027.7	2032.7	2039.4	2040.3
10°	2102.5	2099.1	2080.6	2066.3	2057.1	2042.8	2030.2	2023.4	2026.0	2030.2	2030.2
12.5°	2150.4	2141.2	2117.6	2098.3	2075.6	2048.7	2022.6	2009.1	2008.3	2012.5	2010.8
15°	2201.7	2191.6	2158.8	2123.5	2084.0	2044.5	2013.4	1994.0	1978.9	1974.7	1983.9
17.5°	2261.4	2240.4	2195.0	2146.2	2087.4	2036.1	1987.3	1947.8	1920.8	1913.3	1915.8
20°	2333.8	2306.0	2244.6	2168.1	2084.8	2005.8	1930.1	1877.1	1833.4	1819.9	1821.6
22.5°	2433.9	2385.9	2295.9	2179.0	2063.8	1948.6	1843.5	1774.5	1721.5	1700.5	1713.1
25°	2547.4	2495.2	2344.7	2176.5	2009.1	1856.9	1740.9	1650.9	1602.9	1571.8	1578.6
27.5°	2703.8	2611.3	2396.8	2153.8	1930.9	1745.1	1610.5	1525.6	1481.8	1465.9	1473.4
30°	2904.0	2761.8	2453.2	2092.4	1807.3	1603.8	1479.3	1423.8	1397.7	1377.6	1384.3
32.5°	3048.6	2867.8	2465.8	1989.0	1673.6	1475.1	1390.2	1349.0	1320.4	1301.0	1305.2
35°	3152.1	2957.8	2459.9	1862.0	1534.0	1369.1	1319.5	1285.9	1239.6	1197.6	1190.0
37.5°	3290.8	3070.5	2417.0	1723.2	1396.1	1297.7	1262.3	1200.1	1133.7	1077.3	1074.8
40°	3503.6	3202.5	2325.4	1560.1	1278.3	1244.7	1201.8	1121.1	1049.6	1004.2	1000.8
42.5°	3723.1	3324.5	2200.9	1388.5	1181.6	1189.2	1137.0	1057.1	1013.4	984.0	980.6
45°	3991.4	3456.5	2066.3	1239.6	1110.1	1137.0	1080.7	1034.4	1008.4	989.0	984.0
47.5°	4281.5	3591.9	1915.0	1105.9	1049.6	1089.1	1057.1	1036.1	1021.8	1008.4	1002.5
50°	4594.4	3743.3	1772.8	998.3	994.9	1039.5	1054.6	1047.0	1038.6	1034.4	1029.4
52.5°	4937.5	3898.0	1653.4	922.6	947.0	1004.2	1055.5	1061.3	1061.3	1058.8	1055.5
55°	5169.6	4005.7	1532.3	861.2	898.2	975.6	1053.8	1076.5	1084.9	1081.5	1078.2
57.5°	5341.2	4064.6	1380.1	808.2	857.0	947.8	1044.5	1078.2	1086.6	1090.8	1089.1
60°	5376.5	4009.9	1180.8	752.7	812.4	907.4	1010.9	1052.9	1063.9	1089.9	1092.5
62.5°	5217.6	3841.7	982.3	698.0	757.7	846.0	965.5	1024.3	1046.2	1086.6	1090.8
64°	5022.5	3653.3	872.1	663.5	722.4	811.6	942.8	1016.8	1045.4	1099.2	1102.6
65°	4879.5	3516.2	803.2	641.7	699.7	788.9	930.1	1019.3	1052.9	1118.5	1123.6
67.5°	4353.0	3044.4	664.4	590.4	645.9	750.2	932.7	1040.3	1051.2	1126.1	1125.3
70°	3602.0	2423.8	556.7	543.3	593.7	719.1	922.6	1006.7	1007.5	1057.1	1045.4
72.5°	2697.1	1791.3	482.7	494.5	535.7	645.0	871.3	961.3	947.0	953.7	941.9
75°	1852.7	1185.0	415.5	442.4	475.2	570.2	798.9	873.0	850.3	841.8	833.4
77.5°	989.0	655.1	345.7	391.1	412.9	492.8	697.2	768.7	745.1	712.3	701.4
80°	400.3	308.6	278.4	323.8	336.4	397.0	580.3	624.9	607.2	550.0	531.5
82.5°	201.0	185.0	218.7	254.8	255.7	283.4	431.4	473.5	434.0	364.2	348.2
85°	105.1	108.5	150.5	179.1	158.1	153.1	259.0	286.8	263.2	228.8	206.0
87.5°	37.8	43.7	79.1	78.2	55.5	29.4	57.2	27.8	15.1	9.3	11.8
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)